

GenCore version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: May 3, 2002, 10:25:04 ; Search time 43.73 Seconds

(without alignments)
769.933 Million cell updates/sec

Title: US-09-787-083-6

Perfect score: 442
Sequence: 1 MKVSLSTLTLSLSCFAILA.....YNHATSFQVGLMDWMGL 442

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 219241 seqs, 76174552 residues

Word size : 15

Total number of hits satisfying chosen parameters: 0

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database : PIR 68:*

1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result	Query	
No.	Score	Match Length DB ID Description

No matches found

Search completed: May 3, 2002, 10:25:04
Job time: 215 sec

GenCore version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: May 3, 2002, 10:27:04 ; Search time 28.04 Seconds

(without alignments)
577.955 Million cell updates/sec

Title: US-09-787-083-6

Perfect score: 442
Sequence: 1 MKVSLSTLTLSLSCFAIIA.....YNHEATSEGVGLMNDWMGL 442

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 100059 seqs, 36664827 residues

Word size : 15

Total number of hits satisfying chosen parameters: 0

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : SwissProt_39:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Match	Length DB	ID	Description
No matches found				

Search completed: May 3, 2002, 10:27:04
Job time: 289 sec

GenCore version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: May 3, 2002, 10:26:29 ; Search time 77.95 Seconds
(without alignments)

829.408 Million cell updates/sec

Title: US-09-787-083-6
Perfect score: 442
Sequence: 1 MKVSLSTLTLSTLSCFAIIA.....YVHEATSPGVGIMLNDMMGL 442

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 473505 seqs, 146272329 residues

Word size : 15

Total number of hits satisfying chosen parameters: 0

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : SPREMBL_17:*
1: sp.archaea:*
2: sp.bacteria:*
3: sp.fungi:*
4: sp.human:*
5: sp.invertebrate:*
6: sp.mammal:*
7: sp.mhc:*
8: sp.organelle:*
9: sp.phage:*
10: sp.plant:*
11: sp.rodent:*
12: sp.virus:*
13: sp.vertebrate:*
14: sp.unclassified:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Match	Length	DB ID	Description

No matches found

Search completed: May 3, 2002, 10:26:29
Job time: 270 sec

GenCore version 4.5
Copyright (c) 1993 - 2000 Compugen Ltd.

OM protein - protein search, using sw model

Run on: May 3, 2002, 10:24:14 ; Search time 36.69 Seconds
(without alignments)
271.094 Million cell updates/sec

Title: US-09-787-083-4
Perfect score: 442
Sequence: 1 MKVSLSTLRLSLPCFAILA.....YNHEATSPGVGLMDPMGL 442

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 212252 seqs, 22503292 residues

Word size : 15

Total number of hits satisfying chosen parameters: 0

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/2/1aa/5A_COMB.pep:*
2: /cgn2_6/ptodata/2/1aa/5B_COMB.pep:*
3: /cgn2_6/ptodata/2/1aa/6A_COMB.pep:*
4: /cgn2_6/ptodata/2/1aa/6B_COMB.pep:*
5: /cgn2_6/ptodata/2/1aa/PCRTUS_COMB.pep:*
6: /cgn2_6/ptodata/2/1aa/Backfilest1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result	Query	Score	Match	Length	ID	Description
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No matches found

Search completed: May 3, 2002, 10:24:14
Job time: 185 sec

GenCore version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: May 3, 2002, 10:25:04 ; Search time 43.73 Seconds

(without alignments)
769.933 Million cell updates/sec

Title: US-09-787-083-4

Perfect score: 442
Sequence: 1 MKVSLSTLTLSTLPCFALLA.....YNHEATSPGVGIMLNDMMGL 442

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 219241 seqs, 76174552 residues

Word size : 15

Total number of hits satisfying chosen parameters: 0

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : PIR_68:*

1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Score	Match Length	ID	Description
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No matches found

Search completed: May 3, 2002, 10:25:04
Job time: 215 sec

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OM protein - protein search, using sw model

Run on: May 3, 2002, 10:27:04 ; Search time 28.04 Seconds
(without alignments)
577.955 Million cell updates/sec

Title: US-09-787-083-4
Perfect score: 442
Sequence: 1 MKVSLSTLTLSTLPCFAILA.....YNHEATSEGVGLMLNDWKG 442

Scoring table:
OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 100059 seqs, 36664827 residues

Word size : 15

Total number of hits satisfying chosen parameters: 0

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : SwissProt_39:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Match	Length	ID	Description
No matches found				

Search completed: May 3, 2002, 10:27:04
Job time: 289 sec

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OM protein - protein search, using sw model

Run on: May 3, 2002, 10:26:29 ; Search time 77.95 Seconds

(without alignments)
829.408 Million cell updates/sec

Title: US-09-787-083-4

Perfect score: 442
Sequence: 1 MKVSLSTLTLSTLPCFAILA.....YNHEATSPGVGLMNDPMGL 442

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 473505 segs, 146272329 residues

Word size : 15

Total number of hits satisfying chosen parameters: 0

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database :

SPTREMBL_17 : *
1: sp_archaea : *
2: sp_bacteria : *
3: sp_fungi : *
4: sp_human : *
5: sp_invertebrate : *
6: sp_mammal : *
7: sp_mhc : *
8: sp_organelle : *
9: sp_phage : *
10: sp_plant : *
11: sp_rodent : *
12: sp_virus : *
13: sp_vertebrate : *
14: sp_unclassified : *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result	Query	
No.	Score	Match Length DB ID Description

No matches found

Search completed: May 3, 2002, 10:26:29
Job time: 270 sec

GenCore version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: May 3, 2002, 10:21:09 ; Search time 36.69 Seconds

(without alignments)
271.094 Million cell updates/sec

Title: US-09-787-083-2

Perfect score: 442
Sequence: 1 MKVSLSTLTLSLSCFAIIA.....YVHEATSPGVGLMNDMGL 442

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 212252 seqs, 22503292 residues

Word size : 15

Total number of hits satisfying chosen parameters: 0

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Issued_Patents_AA:*

- 1: /cgn2_6/ptodata/2/1aa/5A_COMB.pep:*
- 2: /cgn2_6/ptodata/2/1aa/6A_COMB.pep:*
- 3: /cgn2_6/ptodata/2/1aa/6A_COMB.pep:*
- 4: /cgn2_6/ptodata/2/1aa/6B_COMB.pep:*
- 5: /cgn2_6/ptodata/2/1aa/PTUS_COMB.pep:*
- 6: /cgn2_6/ptodata/2/1aa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Match	Length	ID	Description
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No matches found

Search completed: May 3, 2002, 10:24:14
Job time: 185 sec

GenCore version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: May 3, 2002, 10:21:29 ; Search time 43.73 Seconds
(without alignments)
769.933 Million cell updates/sec

Title: US-09-787-083-2
Perfect score: 442
Sequence: 1 MKVSLSTLTLSILSCFALA.....YNHEATSRGVLMLNDMMGL 442

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 219241 seqs, 76174552 residues

Word size : 15

Total number of hits satisfying chosen parameters: 0

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : PIR 68:*
1: p1r1:*
2: p1r2:*
3: p1r3:*
4: p1r4:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
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SUMMARIES

Result	Query	
No.	Score	Match length DB ID

Description		

No matches found

Search completed: May 3, 2002, 10:25:04
Job time: 215 sec

GenCore version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: May 3, 2002, 10:22:15 ; Search time 28.04 Seconds
(without alignments)
577.955 Million cell updates/sec

Title: US-09-787-083-2
Perfect score: 442
Sequence: 1 MKVSLSTLTLSLSCFAIIA.....YNHEATSEGVGLMDNMGL 442

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 100059 seqs, 36664827 residues

Word size : 15

Total number of hits satisfying chosen parameters: 0

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : SwissProt_39:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Score	Match Length	ID	Description
No matches found				

Search completed: May 3, 2002, 10:27:04
Job time: 289 sec

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: May 3, 2002, 10:21:59 ; Search time 77.95 Seconds

(without alignments)
829.408 Million cell updates/sec

Title: US-09-787-083-2

Perfect score: 442
Sequence: 1 MKVSLSTLTLSILSCFAILA.....YNHEATSPFGVGLMNDMMGL 442

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 473505 seqs, 146272329 residues

Word size : 15

Total number of hits satisfying chosen parameters: 0

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database :

- 1: SPREMBL_17:*
- 2: sp_archaea:*
- 3: sp_bacteria:*
- 4: sp_fungi:*
- 5: sp_human:*
- 6: sp_invertebrate:*
- 7: sp_mammal:*
- 8: sp_mhc:*
- 9: sp_organelle:*
- 10: sp_phage:*
- 11: sp_plant:*
- 12: sp_rodent:*
- 13: sp_virus:*
- 14: sp_vertebrate:*

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Search completed: May 3, 2002, 10:26:29
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OM protein - protein search, using sw model

Run on: May 3, 2002, 10:24:14 ; Search time 36.69 Seconds

(without alignments)
271.094 Million cell updates/sec

Title: US-09-787-083-8

Perfect score: 442
Sequence: 1 MKVSLSTLTLSILPCFALLA.....YNHEATSPGVGLMNDMMGL 442

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 212252 seqs, 22503292 residues

Word size : 15

Total number of hits satisfying chosen parameters: 0

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Issued_Patents_AA:*

- 1: /cgn2_6/ploddata/2/1aa/5A_COMB.pep:*
- 2: /cgn2_6/ploddata/2/1aa/5B_COMB.pep:*
- 3: /cgn2_6/ploddata/2/1aa/6A_COMB.pep:*
- 4: /cgn2_6/ploddata/2/1aa/6B_COMB.pep:*
- 5: /cgn2_6/ploddata/2/1aa/PCTUS_COMB.pep:*
- 6: /cgn2_6/ploddata/2/1aa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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No matches found

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Run on: May 3, 2002, 10:25:04 ; Search time 43.73 Seconds

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Title: US-09-787-083-8
Perfect score: 442
Sequence: 1 MKVSLSTLTLSILPCFALA.....YNHEATSPGVGLMNDWMGL 442

Scoring table:
OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 219241 seqs, 76174552 residues

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Perfect score: 442
Sequence: 1 MKVSLSTLTLSILPCFAILA.....YNHEATSRGVLMLNDWMGL 442

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 100059 seqs, 36664827 residues

Word size : 15

Total number of hits satisfying chosen parameters: 0

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : SwissProt_39:*

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score greater than or equal to the score of the result being printed,
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Search completed: May 3, 2002, 10:27:04
Job time: 289 sec

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Run on: May 3, 2002, 10:26:29 ; Search time 77.95 Seconds
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829.408 Million cell updates/sec

Title: US-09-787-083-8

Perfect score: 442
Sequence: 1 MKVSLSTLTLSILPCFAILA.....YNHEATSFQVGLMINDMGL 442

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 473505 seqs, 146272329 residues

Word size : 15

Total number of hits satisfying chosen parameters: 0

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : SPTREMBL_17.*

1: SP_archaea:*
2: SP_bacteria:*
3: SP_fungi:*
4: SP_human:*
5: SP_invertebrate:*
6: SP_mammal:*
7: SP_mhc:*
8: SP_organelle:*
9: SP_phage:*
10: SP_plant:*
11: SP_rodent:*
12: SP_virus:*
13: SP_vertebrate:*
14: SP_unclassified:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Score	Match length	ID	Description

No matches found				

Search completed: May 3, 2002, 10:26:29
Job time: 270 sec

(FILE 'HOME' ENTERED AT 13:44:02 ON 09 MAY 2002)

· FILE 'BIOSIS, CABA, CAPLUS, EMBASE, LIFESCI, MEDLINE, SCISEARCH,
USPATFULL, JAPIO' ENTERED AT 13:44:16 ON 09 MAY 2002

L1	5782 S BRANHAMELLA CATARRHALIS
L2	848 S L1 AND (PROTEIN OR PEPTIDE OR POLYPEPTIDE)
L3	483 DUP REM L2 (365 DUPLICATES REMOVED)
L4	116 S L3 AND FRAGMENTS
L5	119 S L3 AND (IMMUNOBLOT OR ELISA)
L6	111 S L5 AND ANTIBODIES
L7	82 S L4 AND (KDA OR MOLECULAR WEIGHT)
L8	193 S L3 AND GEL
L9	104 S L8 AND FRAGMENTS
L10	104 DUP REM L9 (0 DUPLICATES REMOVED)
L11	111 DUP REM L6 (0 DUPLICATES REMOVED)
L12	94 S L6 AND VACCIN?
L13	79 S L6 AND IMMUNI?
L14	9 S L13 AND VACCINATE

(FILE 'HOME' ENTERED AT 13:44:02 ON 09 MAY 2002)

FILE 'BIOSIS, CABA, CAPLUS, EMBASE, LIFESCI, MEDLINE, SCISEARCH,
USPATFULL, JAPIO' ENTERED AT 13:44:16 ON 09 MAY 2002

L1	5782 S BRANHAMELLA CATARRHALIS
L2	848 S L1 AND (PROTEIN OR PEPTIDE OR POLYPEPTIDE)
L3	483 DUP REM L2 (365 DUPLICATES REMOVED)
L4	116 S L3 AND FRAGMENTS
L5	119 S L3 AND (IMMUNOBLOT OR ELISA)
L6	111 S L5 AND ANTIBODIES
L7	82 S L4 AND (KDA OR MOLECULAR WEIGHT)
L8	193 S L3 AND GEL
L9	104 S L8 AND FRAGMENTS
L10	104 DUP REM L9 (0 DUPLICATES REMOVED)
L11	111 DUP REM L6 (0 DUPLICATES REMOVED)
L12	94 S L6 AND VACCIN?
L13	79 S L6 AND IMMUNI?
L14	9 S L13 AND VACCINATE

L12 ANSWER 1 OF 94 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 1997:204481 BIOSIS
DOCUMENT NUMBER: PREV199799503684
TITLE: The major outer membrane **protein**, CD, extracted from *Moraxella (Branhamella) catarrhalis* is a potential **vaccine** antigen that induces bactericidal **antibodies**.
AUTHOR(S): Yang, Yan-Ping (1); Myers, Lisa E.; McGuinness, Ursula; Chong, Pele; Kwok, Yan; Klein, Michel H.; Harkness, Robin E.
CORPORATE SOURCE: (1) Research Center, Pasteur Merieux Connaught Canada, 1755 Steeles Ave. West, North York, ON M2R 3T4 Canada
SOURCE: FEMS Immunology and Medical Microbiology, (1997) Vol. 17, No. 3, pp. 187-199.
ISSN: 0928-8244.
DOCUMENT TYPE: Article
LANGUAGE: English

L12 ANSWER 2 OF 94 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 1992:211626 BIOSIS
DOCUMENT NUMBER: BA93:111851
TITLE: CHARACTERIZATION OF AN ANTIGENICALLY CONSERVED HEAT-MODIFIABLE MAJOR OUTER MEMBRANE **PROTEIN** OF **BRANHAMELLA-CATARRHALIS**.
AUTHOR(S): SARWAR J; CAMPAGNARI A A; KIRKHAM C; MURPHY T F
CORPORATE SOURCE: BUFFALO VAMC, MED. RES. 151, 3495 BAILEY AVE., BUFFALO, N.Y. 14215.
SOURCE: INFECT IMMUN, (1992) 60 (3), 804-809.
CODEN: INFIBR. ISSN: 0019-9567.
FILE SEGMENT: BA; OLD
LANGUAGE: English

L12 ANSWER 3 OF 94 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 1991:4730 BIOSIS
DOCUMENT NUMBER: BA91:4730
TITLE: **BRANHAMELLA-CATARRHALIS** ANTIGENIC DETERMINANTS AND THE DEVELOPMENT OF THE IGG SUBCLASS RESPONSE IN CHILDHOOD.
AUTHOR(S): GOLDBLATT D; TURNER M W; LEVINSKY R J
CORPORATE SOURCE: DEP. IMMUNOLOGY, INSTITUTE CHILD HEALTH, 30 GUILFORD ST., LONDON WC1N 1EH, U.K.
SOURCE: J INFECT DIS, (1990) 162 (5), 1128-1135.
CODEN: JIDIAQ. ISSN: 0022-1899.
FILE SEGMENT: BA; OLD
LANGUAGE: English

L12 ANSWER 4 OF 94 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 1989:493233 BIOSIS
DOCUMENT NUMBER: BA88:119770
TITLE: SURFACE-EXPOSED AND ANTIGENICALLY CONSERVED DETERMINANTS OF OUTER MEMBRANE **PROTEINS** OF **BRANHAMELLA-CATARRHALIS**.
AUTHOR(S): MURPHY T F; BARTOS L C
CORPORATE SOURCE: DIV. INFECTIOUS DISEASES, DEP. MED., SCH. MED. AND BIOMED. SCI., STATE UNIV. NEW YORK AT BUFFALO, 462 GRIDER ST., BUFFALO, NEW YORK 14215.
SOURCE: INFECT IMMUN, (1989) 57 (10), 2938-2941.
CODEN: INFIBR. ISSN: 0019-9567.
FILE SEGMENT: BA; OLD
LANGUAGE: English

L12 ANSWER 5 OF 94 MEDLINE
ACCESSION NUMBER: 2001027206 MEDLINE
DOCUMENT NUMBER: 20490556 PubMed ID: 11035732

TITLE: Antigenic structure of outer membrane **protein E** of *Moraxella catarrhalis* and construction and characterization of mutants.
 AUTHOR: Murphy T F; Brauer A L; Yuskiw N; Hiltke T J
 CORPORATE SOURCE: Division of Infectious Diseases of the Department of Medicine, State University of New York at Buffalo, Buffalo, New York 14215, USA.. murphyt@acsu.buffalo.edu
 CONTRACT NUMBER: AI28304 (NIAID)
 SOURCE: INFECTION AND IMMUNITY, (2000 Nov) 68 (11) 6250-6.
 Journal code: GO7. ISSN: 0019-9567.
 PUB. COUNTRY: United States
 Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 200011
 ENTRY DATE: Entered STN: 20010322
 Last Updated on STN: 20010322
 Entered Medline: 20001115

L12 ANSWER 6 OF 94 MEDLINE
 ACCESSION NUMBER: 1999386849 MEDLINE
 DOCUMENT NUMBER: 99386849 PubMed ID: 10456903
 TITLE: Analysis of antigenic structure and human immune response to outer membrane **protein CD** of *Moraxella catarrhalis*.
 AUTHOR: Murphy T F; Kirkham C; DeNardin E; Sethi S
 CORPORATE SOURCE: Divisions of Infectious Diseases, School of Medicine and Biomedical Sciences, State University of New York at Buffalo, Buffalo, New York 14215, USA..
 murphyt@acsu.buffalo.edu
 CONTRACT NUMBER: AI28304 (NIAID)
 SOURCE: INFECTION AND IMMUNITY, (1999 Sep) 67 (9) 4578-85.
 Journal code: GO7; 0246127. ISSN: 0019-9567.
 PUB. COUNTRY: United States
 Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 199910
 ENTRY DATE: Entered STN: 19991014
 Last Updated on STN: 19991014
 Entered Medline: 19991005

L12 ANSWER 7 OF 94 MEDLINE
 ACCESSION NUMBER: 1999086175 MEDLINE
 DOCUMENT NUMBER: 99086175 PubMed ID: 9870628
 TITLE: Serum **antibodies** specific to CD outer membrane **protein** of *Moraxella catarrhalis*, P6 outer membrane **protein** of non-typeable *Haemophilus influenzae* and capsular polysaccharides of *Streptococcus pneumoniae* in children with otitis media with effusion.
 AUTHOR: Harabuchi Y; Murakata H; Goh M; Kodama H; Kataura A; Faden H; Murphy T F
 CORPORATE SOURCE: Department of Otolaryngology, Sapporo Medical University School of Medicine, Japan.. yasu@sapmed.ac.jp
 SOURCE: ACTA OTO-LARYNGOLOGICA, (1998 Nov) 118 (6) 826-32.
 Journal code: 1HA; 0370354. ISSN: 0001-6489.
 PUB. COUNTRY: Norway
 Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 199903
 ENTRY DATE: Entered STN: 19990316
 Last Updated on STN: 20000303
 Entered Medline: 19990303

L12 ANSWER 8 OF 94 MEDLINE
 ACCESSION NUMBER: 1998380363 MEDLINE
 DOCUMENT NUMBER: 98380363 PubMed ID: 9712766
 TITLE: The transferrin binding **protein** B of Moraxella catarrhalis elicits bactericidal **antibodies** and is a potential **vaccine** antigen.
 AUTHOR: Myers L E; Yang Y P; Du R P; Wang Q; Harkness R E; Schryvers A B; Klein M H; Loosmore S M
 CORPORATE SOURCE: Pasteur Merieux Connaught Canada Research, North York, Ontario, Canada M2R 3T4.
 SOURCE: INFECTION AND IMMUNITY, (1998 Sep) 66 (9) 4183-92.
 Journal code: GO7; 0246127. ISSN: 0019-9567.
 PUB. COUNTRY: United States
 Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 OTHER SOURCE: GENBANK-AF039311; GENBANK-AF039312; GENBANK-AF039313; GENBANK-AF039314; GENBANK-AF039315; GENBANK-AF039316
 ENTRY MONTH: 199810
 ENTRY DATE: Entered STN: 19981020
 Last Updated on STN: 19981020
 Entered Medline: 19981002

L12 ANSWER 9 OF 94 MEDLINE
 ACCESSION NUMBER: 93239308 MEDLINE
 DOCUMENT NUMBER: 93239308 PubMed ID: 7683000
 TITLE: A major outer membrane **protein** of Moraxella catarrhalis is a target for **antibodies** that enhance pulmonary clearance of the pathogen in an animal model.
 AUTHOR: Helminen M E; Maciver I; Latimer J L; Cope L D; McCracken G H Jr; Hansen E J
 CORPORATE SOURCE: Department of Microbiology, University of Texas Southwestern Medical Center, Dallas 75235.
 SOURCE: INFECTION AND IMMUNITY, (1993 May) 61 (5) 2003-10.
 Journal code: GO7; 0246127. ISSN: 0019-9567.
 PUB. COUNTRY: United States
 Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 OTHER SOURCE: GENBANK-L12346
 ENTRY MONTH: 199305
 ENTRY DATE: Entered STN: 19930611
 Last Updated on STN: 19960129
 Entered Medline: 19930524

L12 ANSWER 10 OF 94 MEDLINE
 ACCESSION NUMBER: 91169590 MEDLINE
 DOCUMENT NUMBER: 91169590 PubMed ID: 1900807
 TITLE: Distribution of **protein** D, an immunoglobulin D-binding **protein**, in Haemophilus strains.
 AUTHOR: Akkoyunlu M; Ruan M; Forsgren A
 CORPORATE SOURCE: Department of Medical Microbiology, University of Lund, Malmo General Hospital, Sweden.
 SOURCE: INFECTION AND IMMUNITY, (1991 Apr) 59 (4) 1231-8.
 Journal code: GO7; 0246127. ISSN: 0019-9567.
 PUB. COUNTRY: United States
 Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 199104
 ENTRY DATE: Entered STN: 19910512
 Last Updated on STN: 19910512

Entered Medline: 19910425

L12 ANSWER 11 OF 94 USPATFULL

ACCESSION NUMBER: 2002:102627 USPATFULL

TITLE: Sequence directed DNA binding molecules compositions and methods

INVENTOR(S): Edwards, Cynthia A., Menlo Park, CA, United States
Cantor, Charles R., Boston, MA, United States
Andrews, Beth M., Maynard, MA, United States
Turin, Lisa M., Redwood City, CA, United States
Fry, Kirk E., Palo Alto, CA, United States

PATENT ASSIGNEE(S): Genelabs Technologies, Inc., Redwood City, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6384208	B1	20020507
APPLICATION INFO.:	US 1999-354947		19990715 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1995-482080, filed on 7 Jun 1995, now patented, Pat. No. US 6010849, issued on 4 Jan 2000 Division of Ser. No. US 1993-171389, filed on 20 Dec 1993, now patented, Pat. No. US 5578444, issued on 26 Nov 1996 Continuation-in-part of Ser. No. US 1993-123936, filed on 17 Sep 1993, now patented, Pat. No. US 5726014, issued on 10 Mar 1998 Continuation-in-part of Ser. No. US 1992-996783, filed on 23 Dec 1992, now patented, Pat. No. US 5693463, issued on 2 Dec 1997 Continuation-in-part of Ser. No. US 1991-723618, filed on 27 Jun 1991, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Schwartzman, Robert A.		
ASSISTANT EXAMINER:	Davis, Katharine F.		
LEGAL REPRESENTATIVE:	Fabian, Gary, Thrower, Larry W., Perkins Coie LLP		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	71 Drawing Figure(s); 47 Drawing Page(s)		
LINE COUNT:	5215		

L12 ANSWER 12 OF 94 USPATFULL

ACCESSION NUMBER: 2002:81034 USPATFULL

TITLE: **Vaccines**

INVENTOR(S): Garcon, Nathalie, Wavre, BELGIUM
Momin, Patricia Marie Christine Aline Francoise, Brussels, BELGIUM

PATENT ASSIGNEE(S): SmithKline Beecham Biologicals, s.a., Rixensart, BELGIUM (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6372227	B1	20020416
	WO 9912565		19990318
APPLICATION INFO.:	US 2000-486996		20000424 (9)
	WO 1998-EP5714		19980902
			20000424 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	GB 1997-18901	19970905
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Stucker, Jeffrey	
LEGAL REPRESENTATIVE:	Kerekes, Zoltan, Venetianer, Stephen, Kinzig, Charles M.	

NUMBER OF CLAIMS: 25
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 15 Drawing Figure(s); 12 Drawing Page(s)
LINE COUNT: 1491
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 13 OF 94 USPATFULL

ACCESSION NUMBER: 2002:63538 USPATFULL
TITLE: Transferrin receptor genes
INVENTOR(S): Loosmore, Sheena M., Aurora, CANADA
Harkness, Robin E., Willowdale, CANADA
Schryvers, Anthony B., Calgary, CANADA
Chong, Pele, Richmond Hill, CANADA
Gray-Owen, Scott, Calgary, CANADA
Yang, Yan-Ping, Willowdale, CANADA
Murdin, Andrew D., Newmarket, CANADA
Klein, Michel H., Willowdale, CANADA
PATENT ASSIGNEE(S): Aventis Pasteur Limited, Toronto, CANADA (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6361779	B1	20020326
APPLICATION INFO.:	US 1996-649518		19960517 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1995-483577, filed on 7 Jun 1995, now patented, Pat. No. US 6015688 Continuation-in-part of Ser. No. US 1994-337483, filed on 8 Nov 1994 Continuation-in-part of Ser. No. US 1993-175116, filed on 29 Dec 1993, now abandoned Continuation-in-part of Ser. No. US 1993-148968, filed on 8 Nov 1993, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Smith, Lynette R. F.		
ASSISTANT EXAMINER:	Hines, JaNa		
LEGAL REPRESENTATIVE:	Stewart, Michael I., Sim & McBurney		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	146 Drawing Figure(s); 144 Drawing Page(s)		
LINE COUNT:	7335		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L12 ANSWER 14 OF 94 USPATFULL

ACCESSION NUMBER: 2002:57587 USPATFULL
TITLE: Haemophilus transferrin receptor genes
INVENTOR(S): Loosmore, Sheena M., Aurora, CANADA
Harkness, Robin E., Willowdale, CANADA
Schryvers, Anthony B., Calgary, CANADA
Chong, Pele, Richmond Hill, CANADA
Gray-Owen, Scott, Calgary, CANADA
Yang, Yan-Ping, Willowdale, CANADA
Murdin, Andrew D., Newmarket, CANADA
Klein, Michel H., Willowdale, CANADA
PATENT ASSIGNEE(S): Aventis Pasteur Limited, Toronto, CANADA (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6358727	B1	20020319
	WO 9513370		19950518
APPLICATION INFO.:	US 1996-637654		19960805 (8)
	WO 1994-CA616		19941107
			19960805 PCT 371 date
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1993-175116, filed		

on 29 Dec 1993, now abandoned Continuation-in-part of
Ser. No. US 1993-148968, filed on 8 Nov 1993, now
abandoned

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Pak, Michael
LEGAL REPRESENTATIVE: Sim & McBurney
NUMBER OF CLAIMS: 9
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 149 Drawing Figure(s); 142 Drawing Page(s)
LINE COUNT: 6581
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 15 OF 94 USPATFULL

ACCESSION NUMBER: 2002:50620 USPATFULL
TITLE: Pathogenic Escherichia coli associated **protein**
EspA

INVENTOR(S): Finlay, B. Brett, Richmond, CANADA
Kenny, Brendan, Redland, UNITED KINGDOM
Stein, Markus, Quercegrossa, ITALY
Donnenberg, Michael S., Baltimore, MD, United States
Lai, Li-Ching, Upper Arlington, OH, United States
PATENT ASSIGNEE(S): University of British Columbia, Vancouver, CANADA
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6355254	B1	20020312
	WO 9740063		19971030
APPLICATION INFO.:	US 1999-171517		19990810 (9)
	WO 1997-CA265		19970423
			19990810 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-15999P	19960423 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Graser, Jennifer E.	
LEGAL REPRESENTATIVE:	SEED Intellectual Property Law Group PLLC	
NUMBER OF CLAIMS:	5	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	11 Drawing Figure(s); 8 Drawing Page(s)	
LINE COUNT:	2147	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L12 ANSWER 16 OF 94 USPATFULL

ACCESSION NUMBER: 2002:34191 USPATFULL
TITLE: Lactoferrin receptor **protein**
INVENTOR(S): Schryvers, Anthony B., Calgary, CANADA
Bonnah, Robert A., Calgary, CANADA
PATENT ASSIGNEE(S): Aventis Pasteur Limited, Toronto, CANADA (non-U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6348198	B1	20020219
APPLICATION INFO.:	US 1999-371127		19990810 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-552232, filed on 2 Nov 1995, now patented, Pat. No. US 6048539		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Graser, Jennifer E.		
LEGAL REPRESENTATIVE:	Sim & McBurney		

NUMBER OF CLAIMS: 26
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Figure(s); 1 Drawing Page(s)
LINE COUNT: 1257
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 17 OF 94 USPATFULL

ACCESSION NUMBER: 2002:24053 USPATFULL
TITLE: Lactoferrin receptor **protein**
INVENTOR(S): Schryvers, Anthony B., Calgary, CANADA
Bonnah, Robert A., Calgary, CANADA
PATENT ASSIGNEE(S): Aventis Pasteur Limited, Toronto, CANADA (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6344200	B1	20020205
APPLICATION INFO.:	US 1999-371126		19990810 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-552232, filed on 2 Nov 1995, now patented, Pat. No. US 6048539		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Graser, Jennifer E.		
LEGAL REPRESENTATIVE:	Sim & McBurney		
NUMBER OF CLAIMS:	4		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 1 Drawing Page(s)		
LINE COUNT:	1153		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 18 OF 94 USPATFULL

ACCESSION NUMBER: 2002:931 USPATFULL
TITLE: High molecular weight major outer membrane **protein** of moraxella
INVENTOR(S): Sasaki, Ken, Willowdale, CANADA
Harkness, Robin E., Willowdale, CANADA
Klein, Michel H., Willowdale, CANADA
PATENT ASSIGNEE(S): Aventis Pasteur Limited, Toronto, CANADA (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6335018	B1	20020101
APPLICATION INFO.:	US 1995-431718		19950501 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Minnifield, Nita		
LEGAL REPRESENTATIVE:	Sim & McBurney		
NUMBER OF CLAIMS:	9		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	5 Drawing Figure(s); 17 Drawing Page(s)		
LINE COUNT:	1398		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 19 OF 94 USPATFULL

ACCESSION NUMBER: 2001:226761 USPATFULL
TITLE: Immunogenic conjugate molecules
INVENTOR(S): Yang, Yan-Ping, Willowdale, Canada
Kandil, Ali, Willowdale, Canada
Gisonni, Lucy, Toronto, Canada
Fahim, Raafat Emil Fahmy, Mississauga, Canada
Klein, Michel Henri, Willowdale, Canada
PATENT ASSIGNEE(S): Aventis Pasteur Limited, Toronto, Canada (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6329512	B1	20011211
APPLICATION INFO.:	US 1995-467883		19950606 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1995-371965, filed on 12 Jan 1995, now patented, Pat. No. US 5681570		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Graser, Jennifer		
LEGAL REPRESENTATIVE:	Sim & McBurney		
NUMBER OF CLAIMS:	18		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	8 Drawing Figure(s); 5 Drawing Page(s)		
LINE COUNT:	1509		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L12 ANSWER 20 OF 94 USPATFULL
 ACCESSION NUMBER: 2001:205422 USPATFULL
 TITLE: Substantially non-toxic biologically active mucosal adjuvants in vertebrate subjects
 INVENTOR(S): Staats, Herman F., Durham, NC, United States
 Haynes, Barton F., Durham, NC, United States
 Patel, Dhavalkumar D., Durham, NC, United States
 Sempowski, Gregory D., Durham, NC, United States

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2001041180	A1	20011115
APPLICATION INFO.:	US 2001-874103	A1	20010605 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1998-168910, filed on 8 Oct 1998, GRANTED, Pat. No. US 6270758		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	JENKINS & WILSON, PA, 3100 TOWER BLVD, SUITE 1400, DURHAM, NC, 27707		
NUMBER OF CLAIMS:	63		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	4 Drawing Page(s)		
LINE COUNT:	1563		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L12 ANSWER 21 OF 94 USPATFULL
 ACCESSION NUMBER: 2001:196846 USPATFULL
 TITLE: Pneumococcal fimbrial **protein A**
 INVENTOR(S): Russell, Harold, Atlanta, GA, United States
 Sampson, Jacquelyn, College Park, GA, United States
 O'Connor, Steven P., Roswell, GA, United States
 PATENT ASSIGNEE(S): The United States of America as represented by the Department of Health and Human Services, Washington, DC, United States (U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6312944	B1	20011106
APPLICATION INFO.:	US 1994-356106		19941215 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1991-791377, filed on 17 Sep 1991, now patented, Pat. No. US 5422427		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Prouty, Rebecca E.		
LEGAL REPRESENTATIVE:	Needle & Rosenberg, P.C.		
NUMBER OF CLAIMS:	2		
EXEMPLARY CLAIM:	1		

NUMBER OF DRAWINGS: 3 Drawing Figure(s); 3 Drawing Page(s)
LINE COUNT: 505
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 22 OF 94 USPATFULL

ACCESSION NUMBER: 2001:191256 USPATFULL
TITLE: USPA1 and USPA2 antigens of Moraxella catarrhalis
INVENTOR(S): Hansen, Eric J., Plano, TX, United States
Aebi, Christoph, Gasel, Switzerland
Cope, Leslie D., Mesquite, TX, United States
Maciver, Isobel, Cottage Grove, WI, United States
Fiske, Michael J., Rochester, NY, United States
Fredenburg, Ross A., Rochester, NY, United States
PATENT ASSIGNEE(S): Board of Regents, The University of Texas, Austin, TX,
United States (U.S. corporation)
American Cyanamid, Madison, NJ, United States (U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6310190	B1	20011030
APPLICATION INFO.:	US 1999-336447		19990621 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. WO 1997-US23930, filed on 19 Dec 1997		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-33598P	19961220 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Jones, W. Gary	
ASSISTANT EXAMINER:	Soudaya, Jehanne	
LEGAL REPRESENTATIVE:	Fulbright & Jaworski	
NUMBER OF CLAIMS:	2	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	28 Drawing Figure(s); 17 Drawing Page(s)	
LINE COUNT:	4794	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 23 OF 94 USPATFULL

ACCESSION NUMBER: 2001:157808 USPATFULL
TITLE: Transferrin receptor **protein** of Moraxella
INVENTOR(S): Yang, Yan-Ping, Willowdale, Canada
Myers, Lisa E., Guelph, Canada
Harkness, Robin E., Willowdale, Canada
Klein, Michel H., Willowdale, Canada
PATENT ASSIGNEE(S): Aventis Pasteur Limited, Toronto, Canada (non-U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6290970	B1	20010918
APPLICATION INFO.:	US 1995-540753		19951011 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Minnifield, Nita		
LEGAL REPRESENTATIVE:	Sim & McBurney		
NUMBER OF CLAIMS:	7		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	12 Drawing Figure(s); 8 Drawing Page(s)		
LINE COUNT:	1199		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 24 OF 94 USPATFULL

ACCESSION NUMBER: 2001:134223 USPATFULL
TITLE: HIGH MOLECULAR WEIGHT MAJOR OUTER MEMBRANE
PROTEIN OF MORAXELLA
INVENTOR(S): SASAKI, KEN, WILLOWDALE, Canada
HARKNESS, ROBIN E., WILLOWDALE, Canada
LOOSMORE, SHEENA M., AURORA, Canada
CHONG, PELE, RICHMOND HILL, Canada
KLEIN, MICHEL H., WILLOWDALE, Canada

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2001014672	A1	20010816
APPLICATION INFO.:	US 1998-945567	A1	19980319 (8)
	WO 1996-CA264		19960429
			None PCT 102(e) date

	NUMBER	DATE
PRIORITY INFORMATION:	US 1995-8431718	19950501
	US 1995-8478370	19950607
	US 1996-8621944	19960320
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	SIM & MCBURNEY, 6TH FLOOR, 330 UNIVERSITY AVENUE, TORONTO ONTARIO	
NUMBER OF CLAIMS:	37	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	47 Drawing Page(s)	
LINE COUNT:	1689	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L12 ANSWER 25 OF 94 USPATFULL
ACCESSION NUMBER: 2001:125544 USPATFULL
TITLE: Substantially non-toxic biologically active mucosal
adjuvants in vertebrate subjects
INVENTOR(S): Staats, Herman F., Durham, NC, United States
Haynes, Barton F., Durham, NC, United States
Patel, Dhavalkumar D., Durham, NC, United States
Sempowski, Gregory D., Durham, NC, United States
PATENT ASSIGNEE(S): Duke University, Durham, NC, United States (U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6270758	B1	20010807
APPLICATION INFO.:	US 1998-168910		19981008 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Kunz, Gary L.		
ASSISTANT EXAMINER:	Landsman, Robert S.		
LEGAL REPRESENTATIVE:	Jenkins & Wilson, P.A.		
NUMBER OF CLAIMS:	64		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 4 Drawing Page(s)		
LINE COUNT:	1614		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L12 ANSWER 26 OF 94 USPATFULL
ACCESSION NUMBER: 2001:112282 USPATFULL
TITLE: Transferrin receptor genes
INVENTOR(S): Loosmore, Sheena, Aurora, Canada
Harkness, Robin, Willowdale, Canada
Schryvers, Anthony, Calgary, Canada
Chong, Pele, Richmond Hill, Canada

Gray-Owen, Scott, Calgary, Canada
 Yang, Yan-Ping, Willowdale, Canada
 Murdin, Andrew, Newmarket, Canada
 Klein, Michel, Willowdale, Canada
 PATENT ASSIGNEE(S): Connaught Laboratories Limited, North York, Canada
 (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6262016	B1	20010717
APPLICATION INFO.:	US 1997-897438		19970721 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-483577, filed on 7 Jun 1995, now patented, Pat. No. US 6015688 Continuation-in-part of Ser. No. US 1994-337483, filed on 8 Nov 1994, now patented, Pat. No. US 5922562 Continuation-in-part of Ser. No. US 1993-175116, filed on 29 Dec 1993, now abandoned Continuation-in-part of Ser. No. US 1993-148968, filed on 8 Nov 1993, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Mertz, Prema		
LEGAL REPRESENTATIVE:	Sim & McBurney		
NUMBER OF CLAIMS:	4		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	148 Drawing Figure(s); 144 Drawing Page(s)		
LINE COUNT:	2479		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L12 ANSWER 27 OF 94 USPTFULL
 ACCESSION NUMBER: 2001:71101 USPTFULL
 TITLE: Strategically modified hepatitis B core **proteins** and their derivatives
 INVENTOR(S): Birkett, Ashley J., Solana Beach, CA, United States
 PATENT ASSIGNEE(S): Immune Complex Corporation, San Diego, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6231864	B1	20010515
APPLICATION INFO.:	US 1999-248588		19990211 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-74537P	19980212 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Wortman, Donna C.	
LEGAL REPRESENTATIVE:	Welsh & Katz, Ltd.	
NUMBER OF CLAIMS:	22	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Figure(s); 1 Drawing Page(s)	
LINE COUNT:	1665	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L12 ANSWER 28 OF 94 USPTFULL
 ACCESSION NUMBER: 2001:55462 USPTFULL
 TITLE: Streptococcus pneumoniae 37-kDa surface adhesin a **protein**
 INVENTOR(S): Sampson, Jacquelyn S., College Park, GA, United States
 Russell, Harold, Atlanta, GA, United States
 Tharpe, Jean A., Lithonia, GA, United States
 Ades, Edwin W., Atlanta, GA, United States
 Carlone, George M., Stone Mountain, GA, United States

PATENT ASSIGNEE(S): The United States of America as represented by the
Department of Health and Human Services, Washington,
DC, United States (U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6217884	B1	20010417
APPLICATION INFO.:	US 1998-221753		19981228 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1996-715131, filed on 17 Sep 1996, now patented, Pat. No. US 5854416 Continuation-in-part of Ser. No. US 1994-222179, filed on 4 Apr 1994, now abandoned Continuation-in-part of Ser. No. US 1991-791377, filed on 17 Sep 1991, now patented, Pat. No. US 5422427		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Graser, Jennifer		
LEGAL REPRESENTATIVE:	Needle & Rosenberg, P.C.		
NUMBER OF CLAIMS:	3		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1833		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L12 ANSWER 29 OF 94 USPATFULL
ACCESSION NUMBER: 2001:52204 USPATFULL
TITLE: Moraxella catarrhalis outer membrane **protein**
-106 **polypeptide**, gene sequence and uses thereof
INVENTOR(S): Tucker, Kenneth, Frederick, MD, United States
Plosila, Laura, Cary, NC, United States
Tillman, Ulrich F., Olney, MD, United States
PATENT ASSIGNEE(S): Antex Biologics Inc., Gaithersburg, MD, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6214981	B1	20010410
APPLICATION INFO.:	US 1997-968685		19971112 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1996-642712, filed on 3 May 1996		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Smith, Lynette R. F.		
ASSISTANT EXAMINER:	Portner, Ginny Allen		
LEGAL REPRESENTATIVE:	Pennie & Edmonds LLP		
NUMBER OF CLAIMS:	7		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	15 Drawing Figure(s); 13 Drawing Page(s)		
LINE COUNT:	2357		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L12 ANSWER 30 OF 94 USPATFULL
ACCESSION NUMBER: 2001:48215 USPATFULL
TITLE: Lactoferrin receptor **protein**
INVENTOR(S): Schryvers, Anthony B., Calgary, Canada
Bonnah, Robert A., Calgary, Canada
PATENT ASSIGNEE(S): Connaught Laboratories Limited, Toronto, Canada
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6211343	B1	20010403
APPLICATION INFO.:	US 1999-370869		19990810 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-552232, filed on 2 Nov		

1995, now patented, Pat. No. US 6048539
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Graser, Jennifer
LEGAL REPRESENTATIVE: Sim & McBurney
NUMBER OF CLAIMS: 6
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Figure(s); 1 Drawing Page(s)
LINE COUNT: 1206
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 31 OF 94 USPATFULL

ACCESSION NUMBER: 2001:25435 USPATFULL
TITLE: Transferrin receptor **protein** of moraxella
INVENTOR(S): Yang, Yan-Ping, Willowdale, Canada
Myers, Lisa E., Guelph, Canada
Harkness, Robin E., Willowdale, Canada
Klein, Michel H., Willowdale, Canada
PATENT ASSIGNEE(S): Connaught Laboratories Limited, Toronto, Canada
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6190668	B1	20010220
	WO 9713785		19970417
APPLICATION INFO.:	US 1998-51320		19980730 (9)
	WO 1996-CA684		19961011
			19980730 PCT 371 date
			19980730 PCT 102(e) date
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1995-540753, filed on 11 Oct 1995		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Minnifield, Nita		
LEGAL REPRESENTATIVE:	Sim & McBurney		
NUMBER OF CLAIMS:	8		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	5 Drawing Figure(s); 8 Drawing Page(s)		
LINE COUNT:	1221		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L12 ANSWER 32 OF 94 USPATFULL

ACCESSION NUMBER: 2001:18617 USPATFULL
TITLE: Lactoferrin receptor genes of Moraxella
INVENTOR(S): Loosmore, Sheena M., Aurora, Canada
Du, Run-Pan, Thornhill, Canada
Wang, Quijun, Thornhill, Canada
Yang, Yan-Ping, Willowdale, Canada
Klein, Michel H., Willowdale, Canada
PATENT ASSIGNEE(S): Connaught Laboratories Limited, Toronto, Canada
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6184371	B1	20010206
APPLICATION INFO.:	US 1998-74658		19980508 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1997-867941, filed on 3 Jun 1997, now patented, Pat. No. US 5977337		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Graser, Jennifer		
LEGAL REPRESENTATIVE:	Sim & McBurney		
NUMBER OF CLAIMS:	5		
EXEMPLARY CLAIM:	1		

NUMBER OF DRAWINGS: 140 Drawing Figure(s); 130 Drawing Page(s)
LINE COUNT: 1824
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 33 OF 94 USPATFULL

ACCESSION NUMBER: 2001:10547 USPATFULL
TITLE: Generation of immune response using immunogenic
conjugate of molecules
INVENTOR(S): Yang, Yan-ping, Willowdale, Canada
Kandil, Ali, Willowdale, Canada
Gissonni, Lucy, Toronto, Canada
Fahim, Raafat Emil Fahmy, Mississauga, Canada
Klein, Michel Henri, Willowdale, Canada
PATENT ASSIGNEE(S): Connaught Laboratories Limited, North York, Canada
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6177085	B1	20010123
APPLICATION INFO.:	US 1995-467884		19950606 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1995-371965, filed on 12 Jan 1995, now patented, Pat. No. US 5681570		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Smith, Lynette R. F.		
ASSISTANT EXAMINER:	Devi, S.		
LEGAL REPRESENTATIVE:	Sim & McBurney		
NUMBER OF CLAIMS:	6		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	8 Drawing Figure(s); 5 Drawing Page(s)		
LINE COUNT:	1388		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 34 OF 94 USPATFULL

ACCESSION NUMBER: 2001:7697 USPATFULL
TITLE: Oral therapy for the treatment of allergies and method
of manufacture
INVENTOR(S): Michael, J. Gabriel, Cincinnati, OH, United States
Litwin, Allen, Cincinnati, OH, United States
PATENT ASSIGNEE(S): University of Cincinnati, Cincinnati, OH, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6174529	B1	20010116
APPLICATION INFO.:	US 1997-947551		19971011 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1995-472711, filed on 5 Jun 1995, now abandoned Continuation of Ser. No. US 1994-329685, filed on 26 Oct 1994, now patented, Pat. No. US 5609871 Continuation of Ser. No. US 1994-178503, filed on 7 Jan 1994, now abandoned Continuation of Ser. No. US 1992-994932, filed on 22 Dec 1992, now abandoned Continuation of Ser. No. US 1991-719160, filed on 21 Jun 1991, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Minnfield, Nita		
LEGAL REPRESENTATIVE:	Towsend and Townsend and Crew LLP		
NUMBER OF CLAIMS:	29		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	6 Drawing Figure(s); 3 Drawing Page(s)		
LINE COUNT:	538		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 35 OF 94 USPATFULL

ACCESSION NUMBER: 2000:160977 USPATFULL

TITLE: Analog of haemophilus Hin47 with reduced protease activity

INVENTOR(S): Loosmore, Sheena M., 70 Crawford Rose Drive, Aurora, Ontario, Canada L4G 4R4
Yang, Yan-Ping, 120 Torresdale Avenue, Apt. 1709, Willowdale, Ontario, Canada M2R 3N7
Chong, Pele, 32 Estoril Street, Richmond Hill, Ontario, Canada L4C 0B9
Oomen, Raymond P., R.R. No. 1, Schomberg, Ontario, Canada L0G 1T0
Klein, Michel H., 16 Munro Boulevard, Willowdale, Ontario, Canada M2P 1B9

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6153580		20001128
APPLICATION INFO.:	US 1998-106467		19980630 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1996-615271, filed on 20 Jun 1996, now patented, Pat. No. US 5981503 which is a continuation of Ser. No. US 1995-487167, filed on 7 Jun 1995, now patented, Pat. No. US 5869302 which is a continuation-in-part of Ser. No. US 1994-296149, filed on 26 Aug 1994, now patented, Pat. No. US 5939297 which is a continuation-in-part of Ser. No. US 1994-278091, filed on 21 Jul 1994, now patented, Pat. No. US 5506139		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Martinell, James		
LEGAL REPRESENTATIVE:	Stewart, Michael I. Sim & McBurney		
NUMBER OF CLAIMS:	11		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	26 Drawing Figure(s); 26 Drawing Page(s)		
LINE COUNT:	1738		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L12 ANSWER 36 OF 94 USPATFULL

ACCESSION NUMBER: 2000:153691 USPATFULL

TITLE: Analog of Haemophilus Hin47 with reduced protease activity

INVENTOR(S): Loosmore, Sheena M., Aurora, Canada
Yang, Yan-Ping, Willowdale, Canada
Chong, Pele, Richmond Hill, Canada
Oomen, Raymond P., Schomberg, Canada
Klein, Michel H., Willowdale, Canada
PATENT ASSIGNEE(S): Connaught Laboratories Limited, North York, Canada (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6147057		20001114
APPLICATION INFO.:	US 1998-106466		19980630 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1996-615271, filed on 20 Jun 1996, now patented, Pat. No. US 5981503 which is a continuation of Ser. No. US 1995-487167, filed on 7 Jun 1995, now patented, Pat. No. US 5869302 which is a continuation-in-part of Ser. No. US 1994-296149, filed on 26 Aug 1994, now patented, Pat. No. US 5939297 which is a continuation-in-part of Ser. No. US 1997-278091, filed on 21 Jul 1997, now patented, Pat. No. US 5506139		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Martinell, James		

LEGAL REPRESENTATIVE: Sim & McBurney
NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 26 Drawing Figure(s); 26 Drawing Page(s)
LINE COUNT: 1733
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 37 OF 94 USPATFULL

ACCESSION NUMBER: 2000:145892 USPATFULL
TITLE: **Protein D- an IGD-binding protein**
of haemophilus influenzae
INVENTOR(S): Forsgren, Arne, Sothonsvagen 4 B, S-230 11 Falsterbo,
Sweden

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6139846		20001031
APPLICATION INFO.:	US 1999-225443		19990106 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1997-936912, filed on 25 Sep 1997, now patented, Pat. No. US 5888517 which is a continuation of Ser. No. US 1995-468618, filed on 6 Jun 1995, now abandoned which is a continuation of Ser. No. US 1992-946499, filed on 9 Nov 1992, now abandoned		

	NUMBER	DATE
PRIORITY INFORMATION:	SE 1990-1949	19900531
	WO 1991-SE129	19910221
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Stucker, Jeffrey	
ASSISTANT EXAMINER:	Nelson, Brett	
LEGAL REPRESENTATIVE:	Burns, Doane, Swecker & Mathis, L.L.P.	
NUMBER OF CLAIMS:	8	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	16 Drawing Figure(s); 13 Drawing Page(s)	
LINE COUNT:	894	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 38 OF 94 USPATFULL

ACCESSION NUMBER: 2000:134749 USPATFULL
TITLE: Recombinant flagellin **vaccines**
INVENTOR(S): Majarian, William R., Mt. Royal, NJ, United States
Stocker, Bruce A. D., Palo Alto, CA, United States
Newton, Salete M. C., Mountain View, CA, United States
PATENT ASSIGNEE(S): American Cyanamid Company, Madison, NJ, United States
(U.S. corporation)
The Board of Trustees of the Leland Stanford Junior University, Stanford, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6130082		20001010
APPLICATION INFO.:	US 1992-837668		19920214 (7)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1989-348430, filed on 5 May 1989, now abandoned which is a continuation-in-part of Ser. No. US 1988-190570, filed on 5 May 1988, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Mosher, Mary E.		
LEGAL REPRESENTATIVE:	Hamilton, Brook, Smith & Reynolds, P.C.		
NUMBER OF CLAIMS:	3		

EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 15 Drawing Figure(s); 17 Drawing Page(s)
LINE COUNT: 2404
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 39 OF 94 USPATFULL

ACCESSION NUMBER: 2000:125203 USPATFULL
TITLE: Major outer membrane **protein** CD of
branhamella
INVENTOR(S): Yang, Yan-Ping, Willowdale, Canada
Harkness, Robin Edmond, Willowdale, Canada
Myers, Lisa Elizabeth, Guelph, Canada
McGuinness, Ursula, Richmond Hill, Canada
Klein, Michel Henri, Willowdale, Canada
PATENT ASSIGNEE(S): Connaught Laboratories Limited, North York, Canada
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6121427		20000919
APPLICATION INFO.:	US 1995-474394		19950607 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1994-328589, filed on 24 Oct 1994, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Minnifield, Nita		
LEGAL REPRESENTATIVE:	Sim & McBurney		
NUMBER OF CLAIMS:	10		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	8 Drawing Figure(s); 7 Drawing Page(s)		
LINE COUNT:	1108		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 40 OF 94 USPATFULL

ACCESSION NUMBER: 2000:117506 USPATFULL
TITLE: Analog of Haemophilus Hin47 with reduced protease
activity
INVENTOR(S): Loosmore, Sheena M., Aurora, Canada
Yang, Yan-Ping, Willowdale, Canada
Chong, Pele, Richmond Hill, Canada
Oomen, Raymond P., Schomberg, Canada
Klein, Michel H., Willowdale, Canada
PATENT ASSIGNEE(S): Connaught Laboratories Limited, North York, Canada
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6114125		20000905
APPLICATION INFO.:	US 1998-106468		19980630 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 615271		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Martinell, James		
LEGAL REPRESENTATIVE:	Sim & McBurney		
NUMBER OF CLAIMS:	3		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	12 Drawing Figure(s); 26 Drawing Page(s)		
LINE COUNT:	1915		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 41 OF 94 USPATFULL

ACCESSION NUMBER: 2000:91731 USPATFULL
TITLE: DNA encoding a transferrin receptor of Moraxella
INVENTOR(S): Myers, Lisa E., Guelph, Canada

Schryvers, Anthony B., Calgary, Canada
Harkness, Robin E., Willowdale, Canada
Loosmore, Sheena M., Aurora, Canada
Du, Run-Pan, Thornhill, Canada
Yang, Yan-Ping, Willowdale, Canada
Klein, Michel H., Willowdale, Canada
PATENT ASSIGNEE(S): Connaught Laboratories Limited, North York, Canada
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6090576		20000718
APPLICATION INFO.:	US 1996-613009		19960308 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Hutzell, Paula K.		
ASSISTANT EXAMINER:	Pak, Michael		
LEGAL REPRESENTATIVE:	Sim & McBurney		
NUMBER OF CLAIMS:	11		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	57 Drawing Figure(s); 57 Drawing Page(s)		
LINE COUNT:	3127		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 42 OF 94 USPATFULL
ACCESSION NUMBER: 2000:43780 USPATFULL
TITLE: Lactoferrin receptor **protein**
INVENTOR(S): Schryvers, Anthony B., Calgary, Canada
Bonnah, Robert A., Calgary, Canada
PATENT ASSIGNEE(S): Connaught Laboratories Limited, North York, Canada
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6048539		20000411
APPLICATION INFO.:	US 1995-552232		19951102 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Chin, Christopher L.		
ASSISTANT EXAMINER:	Graser, Jennifer		
LEGAL REPRESENTATIVE:	Sim & McBurney		
NUMBER OF CLAIMS:	5		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 1 Drawing Page(s)		
LINE COUNT:	1328		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 43 OF 94 USPATFULL
ACCESSION NUMBER: 2000:27773 USPATFULL
TITLE: **Peptide** expression and delivery system
INVENTOR(S): Murphy, Timothy F., East Amherst, NY, United States
Yi, Kyungcheol, Lilburn, GA, United States
PATENT ASSIGNEE(S): Research Foundation of State University of New York,
Amherst, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6033877		20000307
APPLICATION INFO.:	US 1996-740644		19961031 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-6168P	19961102 (60)
DOCUMENT TYPE:	Utility	

FILE SEGMENT: Granted
PRIMARY EXAMINER: Guzo, David
ASSISTANT EXAMINER: Larson, Thomas G.
LEGAL REPRESENTATIVE: Hodgson, Russ, Andrews, Woods & Goodyear LLP
NUMBER OF CLAIMS: 38
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Figure(s); 1 Drawing Page(s)
LINE COUNT: 1436
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 44 OF 94 USPATFULL
ACCESSION NUMBER: 2000:18569 USPATFULL
TITLE: **Protein D--an IgD-binding protein**
ofhaemophilus influenzae
INVENTOR(S): Forsgren, Arne, Sothonsvagen 4 B, S-230 11 Falsterbo,
Sweden

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6025484		20000215
APPLICATION INFO.:	US 1997-969761		19971113 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1997-798026, filed on 6 Feb 1997, now abandoned which is a continuation of Ser. No. US 1995-469011, filed on 5 Jun 1995, now abandoned which is a division of Ser. No. US 946499		

	NUMBER	DATE
PRIORITY INFORMATION:	SE 1990-1949	19900531
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Chin, Christopher L.	
ASSISTANT EXAMINER:	Graser, Jennifer	
LEGAL REPRESENTATIVE:	Burns, Doane, Swecker & Mathis, L.L.P.	
NUMBER OF CLAIMS:	10	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	16 Drawing Figure(s); 13 Drawing Page(s)	
LINE COUNT:	967	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L12 ANSWER 45 OF 94 USPATFULL
ACCESSION NUMBER: 2000:18427 USPATFULL
TITLE: Analog of Haemophilus Hin47 with reduced protease activity
INVENTOR(S): Loosmore, Sheena M., Aurora, Canada
Yang, Yan-Ping, Willowdale, Canada
Chong, Pele, Richmond Hill, Canada
Oomen, Raymond P., Tottenham, Canada
Klein, Michel H., Willowdale, Canada
PATENT ASSIGNEE(S): Connaught Laboratories Limited, North York, Canada
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6025342		20000215
APPLICATION INFO.:	US 1998-74659		19980508 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1995-487167, filed on 7 Jun 1995, now patented, Pat. No. US 5869302 which is a continuation-in-part of Ser. No. US 1994-296149, filed on 26 Aug 1994, now patented, Pat. No. US 5939297 which is a continuation-in-part of Ser. No. US 1994-278091, filed on 21 Jul 1994, now patented, Pat. No. US 5506139		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		

PRIMARY EXAMINER: Priebe, Scott D.
ASSISTANT EXAMINER: Wilson, Michael C.
LEGAL REPRESENTATIVE: Sim & McBurney
NUMBER OF CLAIMS: 9
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 33 Drawing Figure(s); 26 Drawing Page(s)
LINE COUNT: 1719
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 46 OF 94 USPATFULL

ACCESSION NUMBER: 2000:12646 USPATFULL
TITLE: Analog of haemophilus Hin47 with reduced protease activity
INVENTOR(S): Loosmore, Sheena M., Aurora, Canada
Yang, Yan-Ping, Willowdale, Canada
Chong, Pele, Richmond Hill, Canada
Oomen, Raymond P., Tottenham, Canada
Klein, Michel H., Willowdale, Canada
PATENT ASSIGNEE(S): Connaught Laboratories Limited, North York, Canada
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6020183		20000201
APPLICATION INFO.:	US 1998-74660		19980508 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-487167, filed on 7 Jun 1995, now patented, Pat. No. US 5869302 which is a continuation-in-part of Ser. No. US 1994-296149, filed on 26 Aug 1994, now abandoned which is a continuation-in-part of Ser. No. US 1994-278091, filed on 21 Jul 1994, now patented, Pat. No. US 5506139		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Chin, Christopher L.		
ASSISTANT EXAMINER:	Hines, Ja-Na		
LEGAL REPRESENTATIVE:	Sim & McBuney		
NUMBER OF CLAIMS:	12		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	12 Drawing Figure(s); 26 Drawing Page(s)		
LINE COUNT:	1902		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 47 OF 94 USPATFULL

ACCESSION NUMBER: 2000:7189 USPATFULL
TITLE: Transferrin receptor genes
INVENTOR(S): Loosmore, Sheena, Aurora, Canada
Harkness, Robin, Willowdale, Canada
Schryvers, Anthony, Calgary, Canada
Chong, Pele, Richmond Hill, Canada
Gray-Owen, Scott, Calgary, Canada
Yang, Yan-Ping, Willowdale, Canada
Murdin, Andrew, Newmarket, Canada
Klein, Michel, Willowdale, Canada
PATENT ASSIGNEE(S): Connaught Laboratories Limited, North York, Canada
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6015688		20000118
APPLICATION INFO.:	US 1995-483577		19950607 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1994-337483, filed on 8 Nov 1994 which is a continuation-in-part of Ser. No. US 1993-175116, filed on 29 Dec 1993, now abandoned which is a continuation-in-part of Ser. No. US 1993-148968,		

DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Elliott, George C.
 ASSISTANT EXAMINER: Wang, Andrew
 LEGAL REPRESENTATIVE: Sim & McBurney
 NUMBER OF CLAIMS: 7
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 58 Drawing Figure(s); 144 Drawing Page(s)
 LINE COUNT: 8417
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 48 OF 94 USPATFULL
 ACCESSION NUMBER: 2000:1692 USPATFULL
 TITLE: Sequence-directed DNA binding molecules compositions and methods
 INVENTOR(S): Edwards, Cynthia A., Menlo Park, CA, United States
 Cantor, Charles R., Boston, MA, United States
 Andrews, Beth M., Maynard, MA, United States
 Turin, Lisa M., Redwood City, CA, United States
 Fry, Kirk E., Palo Alto, CA, United States
 PATENT ASSIGNEE(S): Genelabs Technologies, Inc., Redwood, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6010849		20000104
APPLICATION INFO.:	US 1995-482080		19950607 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1993-171389, filed on 20 Dec 1993, now patented, Pat. No. US 5578444 which is a continuation-in-part of Ser. No. US 1993-123936, filed on 17 Sep 1993, now patented, Pat. No. US 5726014 which is a continuation-in-part of Ser. No. US 1992-996783, filed on 23 Dec 1992, now patented, Pat. No. US 5693463 which is a continuation-in-part of Ser. No. US 1991-723618, filed on 27 Jun 1991, now abandoned		

DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Degen, Nancy
 ASSISTANT EXAMINER: Schwartzman, Robert
 LEGAL REPRESENTATIVE: Fabin, Gary R. Dehlinger & Associates
 NUMBER OF CLAIMS: 11
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 48 Drawing Figure(s); 47 Drawing Page(s)
 LINE COUNT: 10022
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 49 OF 94 USPATFULL
 ACCESSION NUMBER: 1999:170718 USPATFULL
 TITLE: Transferrin receptor **antibodies**
 INVENTOR(S): Loosmore, Sheena, Aurora, Canada
 Harkness, Robin, Willowdale, Canada
 Schryvers, Anthony, Calgary, Canada
 Chong, Pele, Richmond Hill, Canada
 Gray-Owen, Scott, Calgary, Canada
 Yang, Yan-Ping, Willowdale, Canada
 Murdin, Andrew, Newmarket, Canada
 Klein, Michel, Willowdale, Canada
 PATENT ASSIGNEE(S): Connaught Laboratories Limited, North York, Canada (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6008326		19991228

APPLICATION INFO.: US 1995-474671 19950607 (8)
 RELATED APPLN. INFO.: Continuation of Ser. No. US 1995-337483, filed on 8 Nov 1995 which is a continuation-in-part of Ser. No. US 1993-175116, filed on 29 Dec 1993, now abandoned which is a continuation-in-part of Ser. No. US 1993-148968, filed on 8 Nov 1993, now abandoned

DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Mosher, Mary E.
 LEGAL REPRESENTATIVE: Sim & McBurney
 NUMBER OF CLAIMS: 6
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 35 Drawing Figure(s); 140 Drawing Page(s)
 LINE COUNT: 7547
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 50 OF 94 USPATFULL

ACCESSION NUMBER: 1999:155210 USPATFULL
 TITLE: Methods and compositions relating to useful antigens of moraxella catarrhalis
 INVENTOR(S): Hansen, Eric J., Plano, TX, United States
 Helminen, Meria E., Helsinki, Finland
 Maciver, Isobel, Dallas, TX, United States
 PATENT ASSIGNEE(S): Board of Regents, The University of Texas, Austin, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5993826		19991130
APPLICATION INFO.:	US 1993-25363		19930302 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. WO 1992-US6869, filed on 14 Aug 1992 which is a continuation-in-part of Ser. No. US 1991-745591, filed on 21 Aug 1991, now patented, Pat. No. US 5552146		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Sidberry, Hazel F.		
LEGAL REPRESENTATIVE:	Arnold White & Durkee		
NUMBER OF CLAIMS:	11		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	19 Drawing Figure(s); 17 Drawing Page(s)		
LINE COUNT:	3037		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L12 ANSWER 51 OF 94 USPATFULL

ACCESSION NUMBER: 1999:150931 USPATFULL
 TITLE: **Protein** D-an IgD binding **protein** of Haemophilus influenzae
 INVENTOR(S): Forsgren, Arne, Sothonsvagen 4 B, S-230 11 Falsterbo, Sweden

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5989828		19991123
APPLICATION INFO.:	US 1996-747381		19961112 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1995-465307, filed on 5 Jun 1995, now abandoned which is a division of Ser. No. US 1992-946499, filed on 9 Nov 1992, now abandoned		

	NUMBER	DATE
PRIORITY INFORMATION:	SE 1990-1949	19900531
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	

PRIMARY EXAMINER: Smith, Lynette F.
 ASSISTANT EXAMINER: Nelson, Brett
 LEGAL REPRESENTATIVE: Burns, Doane, Swecker & Mathis, L.L.P.
 NUMBER OF CLAIMS: 1
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 16 Drawing Figure(s); 13 Drawing Page(s)
 LINE COUNT: 913
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 52 OF 94 USPATFULL

ACCESSION NUMBER: 1999:141910 USPATFULL
 TITLE: Analog of Haemophilus Hin47 with reduced protease activity
 INVENTOR(S): Loosmore, Sheena M., Aurora, Canada
 Yang, Yan-Ping, Willowdale, Canada
 Chong, Pele, Richmond Hill, Canada
 Oomen, Raymond P., Schomberg, Canada
 Klein, Michel H., Willowdale, Canada
 PATENT ASSIGNEE(S): Connaught Laboratories Limited, North York, Canada
 (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5981503		19991109
	WO 9603506		19960208
APPLICATION INFO.:	US 1996-615271		19960620 (8)
	WO 1995-CA434		19950721
			19960620 PCT 371 date
			19960620 PCT 102(e) date
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1994-296149, filed on 26 Aug 1994 And a continuation-in-part of Ser. No. US 1994-278091, filed on 21 Jul 1994, now patented, Pat. No. US 5506139 And a continuation-in-part of Ser. No. US 1994-487167, filed on 7 Jun 1994, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Martinell, James		
LEGAL REPRESENTATIVE:	Sim & McBureny		
NUMBER OF CLAIMS:	11		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	12 Drawing Figure(s); 26 Drawing Page(s)		
LINE COUNT:	1906		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L12 ANSWER 53 OF 94 USPATFULL

ACCESSION NUMBER: 1999:141620 USPATFULL
 TITLE: Methods and compositions relating to useful antigens of moraxella catarrhalis
 INVENTOR(S): Hansen, Eric J., Plano, TX, United States
 Helminen, Merja E., Helsinki, Finland
 Maciver, Isobel, Dallas, TX, United States
 PATENT ASSIGNEE(S): Board of Regents, The University of Texas System,
 Austin, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5981213		19991109
APPLICATION INFO.:	US 1995-450351		19950525 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1993-25363, filed on 2 Mar 1993 which is a continuation-in-part of Ser. No. WO 1992-US6869, filed on 14 Aug 1992, now patented, Pat. No. WO 819315, issued on 19 Sep 1994 which is a continuation-in-part of Ser. No. US 1991-745591, filed on 21 Aug 1991, now patented, Pat. No. US 5552146		

DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Housel, James C.
 ASSISTANT EXAMINER: Shaver, Jennifer
 LEGAL REPRESENTATIVE: Arnold, White & Durkee
 NUMBER OF CLAIMS: 23
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 13 Drawing Figure(s); 17 Drawing Page(s)
 LINE COUNT: 3099
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 54 OF 94 USPATFULL

ACCESSION NUMBER: 1999:137485 USPATFULL
 TITLE: Lactoferrin receptor genes of Moraxella
 INVENTOR(S): Loosmore, Sheena M., Aurora, Canada
 Du, Run-Pan, Thornhill, Canada
 Wang, Quijun, Thornhill, Canada
 Yang, Yan-Ping, Willowdale, Canada
 Klein, Michel H., Willowdale, Canada
 PATENT ASSIGNEE(S): Connaught Laboratories Limited, North York, Canada
 (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5977337		19991102
APPLICATION INFO.:	US 1997-867941		19970603 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Housel, James C.		
ASSISTANT EXAMINER:	Graser, Jennifer		
LEGAL REPRESENTATIVE:	Sim & McBurney		
NUMBER OF CLAIMS:	7		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	15 Drawing Figure(s); 111 Drawing Page(s)		
LINE COUNT:	4335		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 55 OF 94 USPATFULL

ACCESSION NUMBER: 1999:121332 USPATFULL
 TITLE: Analog of Haemophilus Hin47 with reduced protease activity
 INVENTOR(S): Loosmore, Sheena M., 70 Crawford Rose Drive, Aurora, Ontario, Canada L4G 4R4
 Yang, Yan-Ping, Apt. 1709, 120 Torresdale Avenue, Willowdale, Ontario, Canada M2R 3N7
 Chong, Pele, 32 Estoril Street, Richmond Hill, Ontario, Canada L4C 0B6
 Oomen, Raymond P., R.R. No. 1, Schomberg, Ontario, Canada L0G 1T0
 Klein, Michel H., 16 Munro Boulevard, Willowdale, Ontario, Canada M2P 1B9

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5962430		19991005
APPLICATION INFO.:	US 1997-801499		19970218 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-482816, filed on 7 Jun 1995 which is a continuation-in-part of Ser. No. US 1994-278091, filed on 21 Jul 1994, now patented, Pat. No. US 5506139		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Guzo, David		
LEGAL REPRESENTATIVE:	Sim & McBurney		

NUMBER OF CLAIMS: 7
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 23 Drawing Figure(s); 23 Drawing Page(s)
LINE COUNT: 1570
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 56 OF 94 USPATFULL

ACCESSION NUMBER: 1999:113865 USPATFULL
TITLE: **Vaccines** for nontypable haemophilus.
influenzae
INVENTOR(S): Green, Bruce A., Pittsford, NY, United States
Zlotnick, Gary W., Penfield, NY, United States
PATENT ASSIGNEE(S): Praxis Biologies, Inc., Rochester, NY, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5955580		19990921
APPLICATION INFO.:	US 1995-449406		19950523 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1990-491466, filed on 9 Mar 1990, now patented, Pat. No. US 5601831, issued on 11 Feb 1997 which is a continuation-in-part of Ser. No. US 1989-320971, filed on 9 Mar 1989, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Hutzell, Paula K.		
ASSISTANT EXAMINER:	Bansal, Geetha P.		
LEGAL REPRESENTATIVE:	Gordon, Alan M.		
NUMBER OF CLAIMS:	10		
EXEMPLARY CLAIM:	1,6		
NUMBER OF DRAWINGS:	9 Drawing Figure(s); 9 Drawing Page(s)		
LINE COUNT:	1521		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 57 OF 94 USPATFULL

ACCESSION NUMBER: 1999:106092 USPATFULL
TITLE: **Vaccine** for Moraxella catarrhalis
INVENTOR(S): Murphy, Timothy F., East Amherst, NY, United States
PATENT ASSIGNEE(S): The Research Foundation of State University of New York, Amherst, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5948412		19990907
APPLICATION INFO.:	US 1997-810655		19970303 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1994-245758, filed on 17 May 1994, now patented, Pat. No. US 5607846		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Degen, Nancy		
ASSISTANT EXAMINER:	Schwartzman, Robert		
LEGAL REPRESENTATIVE:	Hodgson, Russ, Andrews Woods & Goodyear, LLP		
NUMBER OF CLAIMS:	17		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	3 Drawing Figure(s); 2 Drawing Page(s)		
LINE COUNT:	1552		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 58 OF 94 USPATFULL

ACCESSION NUMBER: 1999:96248 USPATFULL
TITLE: Analog of haemophilus HIN47 with reduced protease activity
INVENTOR(S): Loosmore, Sheena M., Aurora, Canada
Yang, Yan-Ping, Willowdale, Canada

Chong, Pele, Richmond Hill, Canada
 Oomen, Raymond P., Schomberg, Canada
 Klein, Michel H., Willowdale, Canada
 PATENT ASSIGNEE(S): Connaught Laboratories Limited, Willowdale, Canada
 (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5939297		19990817
APPLICATION INFO.:	US 1994-296149		19940826 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1994-278091, filed on 21 Jul 1994, now patented, Pat. No. US 5506139		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Hendricks, Keith D.		
LEGAL REPRESENTATIVE:	Sim & McBurney		
NUMBER OF CLAIMS:	40		
EXEMPLARY CLAIM:	23		
NUMBER OF DRAWINGS:	23 Drawing Figure(s); 23 Drawing Page(s)		
LINE COUNT:	1677		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 59 OF 94 USPATFULL
 ACCESSION NUMBER: 1999:92292 USPATFULL
 TITLE: Method of use of an analog of Haemophilus influenzae
 Hin47 with reduced protease activity
 INVENTOR(S): Loosmore, Sheena M., Aurora, Canada
 Yang, Yan-Ping, Willowdale, Canada
 Chong, Pele, Richmond Hill, Canada
 Oomen, Raymond P., Schomberg, Canada
 Klein, Michel H., Willowdale, Canada
 PATENT ASSIGNEE(S): Connaught Laboratories Limited, North York, Canada
 (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5935573		19990810
APPLICATION INFO.:	US 1995-482816		19950607 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1994-296149, filed on 26 Aug 1994 which is a continuation-in-part of Ser. No. US 1994-278091, filed on 21 Jul 1994, now patented, Pat. No. US 5506139		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Hendricks, Keith D.		
LEGAL REPRESENTATIVE:	Sim & McBurney		
NUMBER OF CLAIMS:	5		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	10 Drawing Figure(s); 23 Drawing Page(s)		
LINE COUNT:	1568		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 60 OF 94 USPATFULL
 ACCESSION NUMBER: 1999:78846 USPATFULL
 TITLE: Recombinantly produced transferrin receptor of
 haemophilus
 INVENTOR(S): Loosmore, Sheena, Aurora, Canada
 Harkness, Robin, Willowdale, Canada
 Schryvers, Anthony, Calgary, Canada
 Chong, Pele, Richmond Hill, Canada
 Gray-Owen, Scott, Calgary, Canada
 Yang, Yan-Ping, Willowdale, Canada
 Murdin, Andrew, Newmarket, Canada
 Klein, Michel, Willowdale, Canada

PATENT ASSIGNEE(S): Connaught Laboratories Limited, North York, Canada
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5922841		19990713
APPLICATION INFO.:	US 1995-478373		19950607 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1994-337483, filed on 8 Nov 1994 which is a continuation-in-part of Ser. No. US 1993-175116, filed on 29 Dec 1993, now abandoned which is a continuation-in-part of Ser. No. US 1993-148968, filed on 8 Nov 1993, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	LeGuyader, John L.		
ASSISTANT EXAMINER:	Wang, Andrew		
LEGAL REPRESENTATIVE:	Sim & McBurney		
NUMBER OF CLAIMS:	18		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	145 Drawing Figure(s); 141 Drawing Page(s)		
LINE COUNT:	6316		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 61 OF 94 USPATFULL

ACCESSION NUMBER: 1999:78567 USPATFULL
TITLE: Nucleic acids encoding transferrin receptors
INVENTOR(S): Loosmore, Sheena, Aurora, Canada
Harkness, Robin, Willowdale, Canada
Schryvers, Anthony, Calgary, Canada
Chong, Pele, Richmond Hill, Canada
Gray-Owen, Scott, Calgary, Canada
Yang, Yan-Ping, Willowdale, Canada
Murdin, Andrew, Newmarket, Canada
Klein, Michel, Willowdale, Canada
PATENT ASSIGNEE(S): Connaught Laboratories Limited, North York, Canada
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5922562		19990713
APPLICATION INFO.:	US 1994-337483		19941108 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1993-175116, filed on 29 Dec 1993, now abandoned which is a continuation-in-part of Ser. No. US 1993-148968, filed on 8 Nov 1993, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Walsh, Stephen		
ASSISTANT EXAMINER:	Teng, Sally P.		
LEGAL REPRESENTATIVE:	Sim & McBurney		
NUMBER OF CLAIMS:	21		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	145 Drawing Figure(s); 141 Drawing Page(s)		
LINE COUNT:	6348		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 62 OF 94 USPATFULL

ACCESSION NUMBER: 1999:78330 USPATFULL
TITLE: Transferrin receptor genes and immunogenic compositions derived therefrom
INVENTOR(S): Loosmore, Sheena, Aurora, Canada
Harkness, Robin, Willowdale, Canada
Schryvers, Anthony, Calgary, Canada
Chong, Pele, Richmond Hill, Canada

Gray-Owen, Scott, Calgary, Canada
Yang, Yan-Ping, Willowdale, Canada
Murdin, Andrew, Newmarket, Canada
Klein, Michel, Willowdale, Canada
PATENT ASSIGNEE(S): Connaught Laboratories Limited, North York, Canada
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5922323		19990713
APPLICATION INFO.:	US 1995-478435		19950607 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1994-337483, filed on 8 Nov 1994 which is a continuation-in-part of Ser. No. US 1993-175116, filed on 29 Dec 1993, now abandoned which is a continuation-in-part of Ser. No. US 1993-148968, filed on 8 Nov 1993, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Degen, Nancy		
ASSISTANT EXAMINER:	Latimer, Matthew		
LEGAL REPRESENTATIVE:	Sim & McBurney		
NUMBER OF CLAIMS:	4		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	148 Drawing Figure(s); 141 Drawing Page(s)		
LINE COUNT:	6217		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L12 ANSWER 63 OF 94 USPATFULL
ACCESSION NUMBER: 1999:39944 USPATFULL
TITLE: **Protein** D-an IgD-binding **protein** of
Haemophilus influenzae
INVENTOR(S): Forsgren, Arne, Sothonsvagen 4 B, S-230 11 Falsterbo,
Sweden

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5888517		19990330
APPLICATION INFO.:	US 1997-936912		19970925 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1995-468618, filed on 6 Jun 1995, now abandoned which is a continuation of Ser. No. US 1992-946499, filed on 9 Nov 1992, now abandoned		

	NUMBER	DATE
PRIORITY INFORMATION:	SE 1990-1949	19900531
	WO 1991-SE129	19910221
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Smith, Lynette F.	
LEGAL REPRESENTATIVE:	Burns, Doane, Swecker & Mathis, L.L.P.	
NUMBER OF CLAIMS:	5	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	16 Drawing Figure(s); 13 Drawing Page(s)	
LINE COUNT:	894	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L12 ANSWER 64 OF 94 USPATFULL
ACCESSION NUMBER: 1999:18969 USPATFULL
TITLE: Analog of haemophilus hin47 with reduced protease
activity
INVENTOR(S): Loosmore, Sheena M., Aurora, Canada
Yang, Yan-Ping, Willowdale, Canada
Chong, Pele, Richmond Hill, Canada
Oomen, Raymond P., Tottenham, Canada

PATENT ASSIGNEE(S): Klein, Michel H., Willowdale, Canada
Connaught Laboratories Limited, Willowdale, Canada
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5869302		19990209
APPLICATION INFO.:	US 1995-487167		19950607 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1994-296149, filed on 26 Aug 1994 which is a continuation-in-part of Ser. No. US 1994-278091, filed on 21 Jul 1994, now patented, Pat. No. US 5506139		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Hendricks, Keith D.		
LEGAL REPRESENTATIVE:	Sim & McBurney		
NUMBER OF CLAIMS:	44		
EXEMPLARY CLAIM:	34		
NUMBER OF DRAWINGS:	35 Drawing Figure(s); 26 Drawing Page(s)		
LINE COUNT:	1707		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 65 OF 94 USPATFULL

ACCESSION NUMBER: 1999:18912 USPATFULL
TITLE: Method of determining DNA sequence preference of a DNA-binding molecule
INVENTOR(S): Edwards, Cynthia A., Menlo Park, CA, United States
Cantor, Charles R., Boston, MA, United States
Andrews, Beth M., Maynard, MA, United States
Turin, Lisa M., Redwood City, CA, United States
Fry, Kirk E., Palo Alto, CA, United States
PATENT ASSIGNEE(S): Genelabs Technologies, Inc., Redwood City, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5869241		19990209
APPLICATION INFO.:	US 1995-475228		19950607 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1993-171389, filed on 20 Dec 1993, now patented, Pat. No. US 5578444 which is a continuation-in-part of Ser. No. US 1993-123936, filed on 17 Sep 1993, now patented, Pat. No. US 5726014 which is a continuation-in-part of Ser. No. US 1992-996783, filed on 23 Dec 1992, now patented, Pat. No. US 5693463 which is a continuation-in-part of Ser. No. US 1991-723618, filed on 27 Jun 1991, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Zitomer, Stepanie W.		
ASSISTANT EXAMINER:	Whisenant, Ethan		
LEGAL REPRESENTATIVE:	Fabian, Gary R., Stratford, Carol A., Dehlinger, Peter J.		
NUMBER OF CLAIMS:	11		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	72 Drawing Figure(s); 47 Drawing Page(s)		
LINE COUNT:	9840		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 66 OF 94 USPATFULL

ACCESSION NUMBER: 1999:4344 USPATFULL
TITLE: **Protein D--an IgD-binding protein**
of haemophilus influenzae
INVENTOR(S): Forsgren, Arne, Sothonsvagen 4 B, S-230 11, Falsterbo, Sweden

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5858677		19990112
APPLICATION INFO.:	US 1997-968885		19971105 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1997-798025, filed on 6 Feb 1997, now abandoned which is a continuation of Ser. No. US 1995-464091, filed on 5 Jun 1995, now abandoned which is a division of Ser. No. US 1992-946499, filed on 9 Nov 1992, now abandoned		

	NUMBER	DATE
PRIORITY INFORMATION:	SE 1990-1949	19900531
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Housel, James C.	
ASSISTANT EXAMINER:	Shaver, Jennifer	
LEGAL REPRESENTATIVE:	Burns, Doane, Swecker & Mathis, L.L.P.	
NUMBER OF CLAIMS:	1	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	16 Drawing Figure(s); 13 Drawing Page(s)	
LINE COUNT:	888	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L12 ANSWER 67 OF 94 USPATFULL

ACCESSION NUMBER: 1998:162673 USPATFULL

TITLE: Streptococcus pneumoniae 37-KDA surface adhesin a **protein** and nucleic acids coding therefor

INVENTOR(S): Sampson, Jacquelyn S., College Park, GA, United States
 Russell, Harold, Atlanta, GA, United States
 Tharpe, Jean A., Lithonia, GA, United States
 Ades, Edwin W., Atlanta, GA, United States
 Carlone, George M., Stone Mountain, GA, United States

PATENT ASSIGNEE(S): The United States of America as represented by the Department of Health and Human Services, Washington, DC, United States (U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5854416		19981229
APPLICATION INFO.:	US 1996-715131		19960917 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1994-222179, filed on 4 Apr 1994, now abandoned which is a continuation-in-part of Ser. No. US 1991-791377, filed on 17 Sep 1991, now patented, Pat. No. US 5422427		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Housel, James C.		
ASSISTANT EXAMINER:	Shaver, Jennifer		
LEGAL REPRESENTATIVE:	Fitch, Even, Tabin & Flannery		
NUMBER OF CLAIMS:	9		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1873		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L12 ANSWER 68 OF 94 USPATFULL

ACCESSION NUMBER: 1998:112095 USPATFULL

TITLE: Nucleic acids encoding high molecular weight major outer membrane **protein** of moraxella

INVENTOR(S): Sasaki, Ken, 1131 Steeles Avenue, West, Apt. No. 512, Willowdale, Ontario, Canada M2R 3W8
 Harkness, Robin E., 640 Sheppard Avenue, East, Apt. #1706, Willowdale, Ontario, Canada M2K 1B8

Loosmore, Sheena M., 70 Crawford Rose Drive, Aurora,
Ontario, Canada L4G 4R4
Klein, Michel H., 16 Munro Boulevard, Willowdale,
Ontario, Canada M2P 1B9

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5808024		19980915
APPLICATION INFO.:	US 1995-478370		19950607 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1995-431718, filed on 1 May 1995		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Walsh, Stephen		
ASSISTANT EXAMINER:	Sorensen, Kenneth A.		
NUMBER OF CLAIMS:	13		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	18 Drawing Figure(s); 17 Drawing Page(s)		
LINE COUNT:	1481		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L12 ANSWER 69 OF 94 USPATFULL

ACCESSION NUMBER: 1998:88478 USPATFULL

TITLE: Synthetic **peptides** representing a T-cell epitope as a carrier molecule for conjugate **vaccines**

INVENTOR(S): Bixler, Garvin, Fairport, NY, United States
Pillai, Subramonia, Rochester, NY, United States
Insel, Richard, Rochester, NY, United States

PATENT ASSIGNEE(S): Praxis Biologics, Inc., Rochester, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5785973		19980728
APPLICATION INFO.:	US 1995-481923		19950607 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1993-164989, filed on 9 Dec 1993, now abandoned which is a continuation of Ser. No. US 1992-828711, filed on 31 Jan 1992, now abandoned which is a continuation of Ser. No. US 1989-304783, filed on 31 Jan 1989, now abandoned which is a continuation-in-part of Ser. No. US 1988-150688, filed on 1 Feb 1988, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Achutamurthy, Ponnathapura		
ASSISTANT EXAMINER:	Wessendorf, T. D.		
LEGAL REPRESENTATIVE:	Hamilton, Brook, Smith & Reynolds, P.C.		
NUMBER OF CLAIMS:	26		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	12 Drawing Figure(s); 7 Drawing Page(s)		
LINE COUNT:	2181		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L12 ANSWER 70 OF 94 USPATFULL

ACCESSION NUMBER: 1998:85585 USPATFULL

TITLE: Oral administration of therapeutic **proteins** for treatment of autoimmune disease, transplant rejection and infectious disease

INVENTOR(S): Michael, J. Gabriel, Cincinnati, OH, United States
Litwin, Allen, Cincinnati, OH, United States

PATENT ASSIGNEE(S): The University of Cincinnati, Cincinnati, OH, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5783193		19980721
APPLICATION INFO.:	US 1995-472712		19950605 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1994-329685, filed on 26 Oct 1994, now patented, Pat. No. US 5609871 which is a continuation of Ser. No. US 1994-178503, filed on 7 Jan 1994, now abandoned which is a continuation-in-part of Ser. No. US 1992-994932, filed on 22 Dec 1992, now abandoned which is a continuation of Ser. No. US 1991-719160, filed on 21 Jun 1991, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Minnifield, Nita		
LEGAL REPRESENTATIVE:	Wood, Herron & Evans		
NUMBER OF CLAIMS:	42		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	6 Drawing Figure(s); 3 Drawing Page(s)		
LINE COUNT:	574		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L12 ANSWER 71 OF 94 USPATFULL

ACCESSION NUMBER: 1998:82877 USPATFULL
 TITLE: Method for purification of **protein "e"** from *haemophilus influenzae*
 INVENTOR(S): Green, Bruce A., Pittsford, NY, United States
 Zlotnick, Gary W., Penfield, NY, United States
 PATENT ASSIGNEE(S): Praxis Biologics, Inc., Rochester, NY, United States
 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5780601		19980714
APPLICATION INFO.:	US 1995-447653		19950523 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1990-491466, filed on 9 Mar 1990, now patented, Pat. No. US 5601831 which is a continuation-in-part of Ser. No. US 1989-320971, filed on 9 Mar 1989, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Feisee, Lila		
ASSISTANT EXAMINER:	Reeves, Julie E.		
LEGAL REPRESENTATIVE:	Gordon, Alan M.		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	9 Drawing Figure(s); 9 Drawing Page(s)		
LINE COUNT:	1503		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L12 ANSWER 72 OF 94 USPATFULL

ACCESSION NUMBER: 1998:72256 USPATFULL
 TITLE: Purified nontypable *haemophilus influenzae* P5 **protein** as a **vaccine** for nontypable *haemophilus influenzae* infection
 INVENTOR(S): Zlotnick, Gary W., Penfield, NY, United States
 PATENT ASSIGNEE(S): American Cyanamid Company, Wayne, NJ, United States
 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5770213		19980623
APPLICATION INFO.:	US 1994-210394		19940505 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		

PRIMARY EXAMINER: Sidberry, Hazel F.
LEGAL REPRESENTATIVE: Gordon, Alan M.
NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 5 Drawing Figure(s); 5 Drawing Page(s)
LINE COUNT: 593
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 73 OF 94 USPATFULL

ACCESSION NUMBER: 1998:61433 USPATFULL
TITLE: Methods and compositions relating to useful antigens of
moraxella catarrhalis
INVENTOR(S): Hansen, Eric J., Plano, TX, United States
Maciver, Isobel, Dallas, TX, United States
Helminen, Merja, Helsinki, Finland
PATENT ASSIGNEE(S): Board of Regents, The University of Texas System,
United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5759813		19980602
APPLICATION INFO.:	US 1994-193150		19940919 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1991-745591, filed on 15 Aug 1991, now patented, Pat. No. US 5552146		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Hutzell, Paula K.		
ASSISTANT EXAMINER:	Navarro, Mark		
LEGAL REPRESENTATIVE:	Arnold, White & Durkee		
NUMBER OF CLAIMS:	15		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	5 Drawing Figure(s); 3 Drawing Page(s)		
LINE COUNT:	1732		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 74 OF 94 USPATFULL

ACCESSION NUMBER: 1998:44877 USPATFULL
TITLE: Sequence-directed DNA-binding molecules compositions
and methods
INVENTOR(S): Edwards, Cynthia A., Menlo Park, CA, United States
Fry, Kirk E., Palo Alto, CA, United States
Cantor, Charles R., Boston, MA, United States
Andrews, Beth M., Maynard, MA, United States
PATENT ASSIGNEE(S): Genelabs Technologies, Inc., Redwood City, CA, United
States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5744131		19980428
APPLICATION INFO.:	US 1995-476876		19950607 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1992-996783, filed on 23 Dec 1992 which is a continuation-in-part of Ser. No. US 1991-723618, filed on 27 Jun 1991, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Zitomer, Stephanie W.		
ASSISTANT EXAMINER:	Atzel, Amy		
LEGAL REPRESENTATIVE:	Fabian, Gary R., Stratford, Carol A., Dehlinger, Peter J.		
NUMBER OF CLAIMS:	3		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	48 Drawing Figure(s); 33 Drawing Page(s)		
LINE COUNT:	5113		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 75 OF 94 USPATFULL
 ACCESSION NUMBER: 1998:39383 USPATFULL
 TITLE: Sequence-directed DNA-binding molecules compositions and methods
 INVENTOR(S): Edwards, Cynthia A., Menlo Park, CA, United States
 Fry, Kirk E., Palo Alto, CA, United States
 Cantor, Charles R., Boston, MA, United States
 Andrews, Beth M., Maynard, MA, United States
 PATENT ASSIGNEE(S): Genelabs Technologies, Inc., Redwood City, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5738990		19980414
APPLICATION INFO.:	US 1995-475221		19950607 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1992-996783, filed on 23 Dec 1992 which is a continuation-in-part of Ser. No. US 1991-723618, filed on 27 Jun 1991, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Guzo, David		
ASSISTANT EXAMINER:	Brusca, John S.		
LEGAL REPRESENTATIVE:	Fabian, Gary R., Stratford, Carol A., Dehlinger, Peter J.		
NUMBER OF CLAIMS:	5		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	48 Drawing Figure(s); 33 Drawing Page(s)		
LINE COUNT:	5040		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 76 OF 94 USPATFULL
 ACCESSION NUMBER: 1998:25075 USPATFULL
 TITLE: Screening assay for the detection of DNA-binding molecules
 INVENTOR(S): Edwards, Cynthia A., Menlo Park, CA, United States
 Cantor, Charles R., Boston, MA, United States
 Andrews, Beth M., Watertown, MA, United States
 Turin, Lisa M., Berkeley, CA, United States
 PATENT ASSIGNEE(S): Genelabs Technologies, Inc., Redwood City, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5726014		19980310
APPLICATION INFO.:	US 1993-123936		19930917 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1992-996783, filed on 23 Dec 1992 which is a continuation-in-part of Ser. No. US 1991-723618, filed on 27 Jun 1991, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Jones, W. Gary		
ASSISTANT EXAMINER:	Atzel, Amy		
LEGAL REPRESENTATIVE:	Fabian, Gary R., Stratford, Carol A., Dehlinger, Peter J.		
NUMBER OF CLAIMS:	19		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	72 Drawing Figure(s); 47 Drawing Page(s)		
LINE COUNT:	5659		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 77 OF 94 USPATFULL
 ACCESSION NUMBER: 1998:24926 USPATFULL
 TITLE: **Vaccine** for branhamelia catarrhalis

INVENTOR(S): Murphy, Timothy F., East Amherst, NY, United States
PATENT ASSIGNEE(S): Research Foundation of State University of New York,
Amherst, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5725862		19980310
APPLICATION INFO.:	US 1995-569959		19951208 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1994-306871, filed on 20 Sep 1994, now patented, Pat. No. US 5712118 which is a continuation-in-part of Ser. No. US 1993-129719, filed on 29 Sep 1993, now patented, Pat. No. US 5556755		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Minnifield, N. M.		
LEGAL REPRESENTATIVE:	Hodgson, Russ, Andrews Woods & Goodyear		
NUMBER OF CLAIMS:	16		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	6 Drawing Figure(s); 3 Drawing Page(s)		
LINE COUNT:	1877		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L12 ANSWER 78 OF 94 USPATFULL
ACCESSION NUMBER: 1998:14634 USPATFULL
TITLE: Method of constructing sequence-specific DNA-binding molecules
INVENTOR(S): Edwards, Cynthia A., Menlo Park, CA, United States
Fry, Kirk E., Palo Alto, CA, United States
Cantor, Charles R., Boston, MA, United States
Andrews, Beth M., Watertown, MA, United States
PATENT ASSIGNEE(S): Genelabs Technologies, Inc., Redwood City, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5716780		19980210
APPLICATION INFO.:	US 1995-484499		19950607 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1992-996783, filed on 23 Dec 1992 which is a continuation-in-part of Ser. No. US 1991-723618, filed on 27 Jun 1991, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Jones, W. Gary		
ASSISTANT EXAMINER:	Atzel, Amy		
LEGAL REPRESENTATIVE:	Fabian, Gary R., Stratford, Carol A., Dehlinger, Peter J.		
NUMBER OF CLAIMS:	9		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	48 Drawing Figure(s); 33 Drawing Page(s)		
LINE COUNT:	4929		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L12 ANSWER 79 OF 94 USPATFULL
ACCESSION NUMBER: 1998:4747 USPATFULL
TITLE: Method for producing purified recombinant Haemophilus influenzae transferrin binding **proteins**
INVENTOR(S): Loosmore, Sheena, Aurora, Canada
Harkness, Robin, Willowdale, Canada
Schryvers, Anthony, Calgary, Canada
Chong, Pele, Richmond Hill, Canada
Gray-Owen, Scott, Calgary, Canada
Yang, Yan-Ping, Willowdale, Canada
Murdin, Andrew, Newmarket, Canada
Klein, Michel, Willowdale, Canada

PATENT ASSIGNEE(S): Connaught Laboratories Limited, North York, Canada
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5708149		19980113
APPLICATION INFO.:	US 1995-487890		19950607 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1994-337483, filed on 8 Nov 1994 which is a continuation-in-part of Ser. No. US 1993-175116, filed on 29 Dec 1993, now abandoned which is a continuation-in-part of Ser. No. US 1993-148968, filed on 8 Nov 1993, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Degen, Nancy		
ASSISTANT EXAMINER:	Latimer, Matthew		
LEGAL REPRESENTATIVE:	Sim & McBurney		
NUMBER OF CLAIMS:	5		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	145 Drawing Figure(s); 141 Drawing Page(s)		
LINE COUNT:	2824		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 80 OF 94 USPATFULL

ACCESSION NUMBER: 97:112300 USPATFULL
TITLE: Method of ordering sequence binding preferences of a DNA-binding molecule
INVENTOR(S): Edwards, Cynthia A., Menlo Park, CA, United States
Fry, Kirk E., Palo Alto, CA, United States
Cantor, Charles R., Boston, MA, United States
Andrews, Beth M., Maynard, MA, United States(4)
PATENT ASSIGNEE(S): Genelabs Technologies, Inc., Redwood City, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5693463		19971202
APPLICATION INFO.:	US 1992-996783		19921223 (7)
DISCLAIMER DATE:	20110426		
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1991-723618, filed on 27 Jun 1991, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Zitomer, Stephanie W.		
ASSISTANT EXAMINER:	Atzel, Amy		
LEGAL REPRESENTATIVE:	Fabian, Gary R., Stratford, Carol A., Dehlinger, Peter J.		
NUMBER OF CLAIMS:	3		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	48 Drawing Figure(s); 33 Drawing Page(s)		
LINE COUNT:	4908		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 81 OF 94 USPATFULL

ACCESSION NUMBER: 97:99026 USPATFULL
TITLE: Immunogenic conjugate molecules
INVENTOR(S): Yang, Yan-ping, Willowdale, Canada
Kandil, Ali, Willowdale, Canada
Gisonni, Lucy, Toronto, Canada
Fahim, Raafat Emil Fahmy, Mississauga, Canada
Klein, Michel Henri, Willowdale, Canada
PATENT ASSIGNEE(S): Connaught Laboratories Limited, North York, Canada
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5681570		19971028
APPLICATION INFO.:	US 1995-371965		19950112 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Housel, James C.		
ASSISTANT EXAMINER:	Shaver, Jennifer		
NUMBER OF CLAIMS:	3		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	8 Drawing Figure(s); 5 Drawing Page(s)		
LINE COUNT:	1377		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 82 OF 94 USPATFULL
 ACCESSION NUMBER: 97:80906 USPATFULL
 TITLE: Composition containing an analog of haemophilus Hin47 with reduced protease activity
 INVENTOR(S): Loosmore, Sheena M., Aurora, Canada
 Yang, Yan-Ping, Willowdale, Canada
 Chong, Pele, Richmond Hill, Canada
 Oomen, Raymond P., Schomberg, Canada
 Klein, Michel H., Willowdale, Canada
 PATENT ASSIGNEE(S): Connaught Laboratories Limited, Willowdale, Canada (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5665353		19970909
APPLICATION INFO.:	US 1995-472173		19950607 (8)
DISCLAIMER DATE:	20120607		
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1994-296149, filed on 26 Aug 1994 which is a continuation-in-part of Ser. No. US 1994-278091, filed on 21 Jul 1994, now patented, Pat. No. US 5506139		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Hendricks, Keith D.		
LEGAL REPRESENTATIVE:	Sim & McBurney		
NUMBER OF CLAIMS:	6		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	10 Drawing Figure(s); 23 Drawing Page(s)		
LINE COUNT:	1428		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 83 OF 94 USPATFULL
 ACCESSION NUMBER: 97:70879 USPATFULL
 TITLE: Analog of Haemophilus Hin47 with reduced protease activity
 INVENTOR(S): Loosmore, Sheena M., Aurora, Canada
 Yang, Yan-Ping, Willowdale, Canada
 Chong, Pele, Richmond Hill, Canada
 Oomen, Raymond P., Schomberg, Canada
 Klein, Michel H., Willowdale, Canada
 PATENT ASSIGNEE(S): Connaught Laboratories Limited, North York, United States (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5656436		19970812
APPLICATION INFO.:	US 1995-483859		19950607 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1994-296149, filed on 26 Aug 1994 which is a continuation-in-part of Ser. No. US 1994-278091, filed on 21 Jul 1994, now patented, Pat.		

No. US 5506139
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Housel, James C.
ASSISTANT EXAMINER: Shaver, Jennifer
LEGAL REPRESENTATIVE: Sim & McBurney
NUMBER OF CLAIMS: 3
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 23 Drawing Figure(s); 23 Drawing Page(s)
LINE COUNT: 1463
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 84 OF 94 USPATFULL
ACCESSION NUMBER: 97:40485 USPATFULL
TITLE: Oral administration of therapeutic **proteins**
for treatment of infectious disease
INVENTOR(S): Michael, J. Gabriel, Cincinnati, OH, United States
Litwin, Allen, Cincinnati, OH, United States
PATENT ASSIGNEE(S): University of Cincinnati, Cincinnati, OH, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5629001		19970513
APPLICATION INFO.:	US 1995-380031		19950130 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1994-329685, filed on 26 Oct 1994 which is a continuation of Ser. No. US 1994-178503, filed on 7 Jan 1994, now abandoned which is a continuation-in-part of Ser. No. US 1992-994932, filed on 22 Dec 1992, now abandoned which is a continuation of Ser. No. US 1991-719160, filed on 21 Jun 1991, now abandoned		

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Housel, James C.
ASSISTANT EXAMINER: Minnifield, N. M.
LEGAL REPRESENTATIVE: Wood, Herron & Evans, P.L.L.
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 6 Drawing Figure(s); 3 Drawing Page(s)
LINE COUNT: 527
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 85 OF 94 USPATFULL
ACCESSION NUMBER: 97:20245 USPATFULL
TITLE: Oral administration of therapeutic **proteins**
for treatment of infectious disease
INVENTOR(S): Michael, J. Gabriel, 418 Chisholm Trail, Cincinnati, OH, United States 45236
Litwin, Allen, 8729 Tiburon Dr., Cincinnati, OH, United States 45242

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5609871		19970311
APPLICATION INFO.:	US 1994-329685		19941026 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1994-178503, filed on 7 Jan 1994, now abandoned which is a continuation-in-part of Ser. No. US 1992-994932, filed on 22 Dec 1992, now abandoned which is a continuation of Ser. No. US 1991-719160, filed on 21 Jun 1991, now abandoned		

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Housel, James C.

ASSISTANT EXAMINER: Minnifield, N. M.
NUMBER OF CLAIMS: 23
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 6 Drawing Figure(s); 3 Drawing Page(s)
LINE COUNT: 543
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 86 OF 94 USPATFULL
ACCESSION NUMBER: 97:18072 USPATFULL
TITLE: **Vaccine** for moraxella catarrhalis
INVENTOR(S): Murphy, Timothy F., East Amherst, NY, United States
Bhushan, Reva, North Potomac, MD, United States
PATENT ASSIGNEE(S): Research Foundation of State University of New York,
Amherst, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5607846		19970304
APPLICATION INFO.:	US 1994-245758		19940517 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Guzo, David		
ASSISTANT EXAMINER:	Schwartzman, Robert		
LEGAL REPRESENTATIVE:	Hodgson, Russ, Andrews, Woods & Goodyear		
NUMBER OF CLAIMS:	8		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	3 Drawing Figure(s); 2 Drawing Page(s)		
LINE COUNT:	1262		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 87 OF 94 USPATFULL
ACCESSION NUMBER: 97:9925 USPATFULL
TITLE: Methods and compositions relating to useful antigens of
moraxella catarrhalis
INVENTOR(S): Hansen, Eric J., Plano, TX, United States
Helminen, Merja, Dallas, TX, United States
Maciver, Isobel, Dallas, TX, United States
PATENT ASSIGNEE(S): American Cyanamid Company, Wayne, NJ, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5599693		19970204
APPLICATION INFO.:	US 1995-450002		19950525 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1991-745591, filed on 15 Aug 1991		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Housel, James C.		
ASSISTANT EXAMINER:	Murthy, Prasad		
LEGAL REPRESENTATIVE:	Arnold White & Durkee		
NUMBER OF CLAIMS:	12		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	3 Drawing Figure(s); 2 Drawing Page(s)		
LINE COUNT:	1620		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 88 OF 94 USPATFULL
ACCESSION NUMBER: 97:1168 USPATFULL
TITLE: Oral administration of immunologically active
biomolecules and other therapeutic **proteins**
INVENTOR(S): Michael, J. Gabriel, Cincinnati, OH, United States
Litwin, Allen, Cincinnati, OH, United States
PATENT ASSIGNEE(S): University of Cincinnati, Cincinnati, OH, United States

(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5591433		19970107
APPLICATION INFO.:	US 1995-405604		19950120 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1992-994932, filed on 22 Dec 1992, now abandoned which is a continuation-in-part of Ser. No. US 1991-719160, filed on 21 Jun 1991, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Housel, James C.		
ASSISTANT EXAMINER:	Minnifield, N. M.		
LEGAL REPRESENTATIVE:	Wood, Herron & Evans, P.L.L.		
NUMBER OF CLAIMS:	25		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	11 Drawing Figure(s); 5 Drawing Page(s)		
LINE COUNT:	653		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 89 OF 94 USPATFULL
ACCESSION NUMBER: 96:108816 USPATFULL
TITLE: Sequence-directed DNA-binding molecules compositions and methods
INVENTOR(S): Edwards, Cynthia A., Menlo Park, CA, United States
Cantor, Charles R., Boston, MA, United States
Andrews, Beth M., Maynard, MA, United States
Turin, Lisa M., Redwood City, CA, United States
Fry, Kirk E., Palo Alto, CA, United States
PATENT ASSIGNEE(S): Genelabs Technologies, Inc., Redwood City, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5578444		19961126
APPLICATION INFO.:	US 1993-171389		19931220 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1993-123936, filed on 17 Sep 1993 which is a continuation-in-part of Ser. No. US 1992-996783, filed on 23 Dec 1992 which is a continuation-in-part of Ser. No. US 1991-723618, filed on 27 Jun 1991, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Zitomer, Stephanie W.		
ASSISTANT EXAMINER:	Atzel, Amy		
LEGAL REPRESENTATIVE:	Fabian, Gary R., Brookes, Allen A., Stratford, Carol A.		
NUMBER OF CLAIMS:	15		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	71 Drawing Figure(s); 48 Drawing Page(s)		
LINE COUNT:	5845		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 90 OF 94 USPATFULL
ACCESSION NUMBER: 96:85036 USPATFULL
TITLE: Method for detecting **Branhamella catarrhalis**
INVENTOR(S): Murphy, Timothy F., East Amherst, NY, United States
PATENT ASSIGNEE(S): The Research Foundation of State University of New York, Amherst, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5556755		19960917

APPLICATION INFO.: US 1993-129719 19930929 (8)
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Zitomer, Stephanie W.
ASSISTANT EXAMINER: Sisson, Bradley L.
LEGAL REPRESENTATIVE: Hodgson, Russ, Andrews, Woods & Goodyear
NUMBER OF CLAIMS: 10
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 6 Drawing Figure(s); 3 Drawing Page(s)
LINE COUNT: 1223
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 91 OF 94 USPATFULL
ACCESSION NUMBER: 96:80017 USPATFULL
TITLE: Methods and compositions relating to useful antigens of
Moraxella catarrhalis
INVENTOR(S): Hansen, Eric J., Plano, TX, United States
Helminen, Merja, Dallas, TX, United States
Maciver, Isobel, Dallas, TX, United States
PATENT ASSIGNEE(S): Board of Regents, The University of Texas System,
Austin, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5552146		19960903
APPLICATION INFO.:	US 1991-745591		19910815 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Sidberry, Hazel F.		
LEGAL REPRESENTATIVE:	Arnold, White & Durkee		
NUMBER OF CLAIMS:	7		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	3 Drawing Figure(s); 2 Drawing Page(s)		
LINE COUNT:	1597		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 92 OF 94 USPATFULL
ACCESSION NUMBER: 96:29469 USPATFULL
TITLE: Analog of haemophilus Hin47 with reduced protease
activity
INVENTOR(S): Loosmore, Sheena M., Aurora, Canada
Yang, Yan-Ping, Willowdale, Canada
Chong, Pele, Richmond Hill, Canada
Oomen, Raymond P., Tottenham, Canada
Klein, Michel H., Willowdale, Canada
PATENT ASSIGNEE(S): Connaught Laboratories Limited, Willowdale, Canada
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5506139		19960409
APPLICATION INFO.:	US 1994-278091		19940721 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Wax, Robert A.		
ASSISTANT EXAMINER:	Hendricks, Keith D.		
LEGAL REPRESENTATIVE:	Sim & McBurney		
NUMBER OF CLAIMS:	26		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	23 Drawing Figure(s); 23 Drawing Page(s)		
LINE COUNT:	1511		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 93 OF 94 USPATFULL

ACCESSION NUMBER: 95:50251 USPATFULL
 TITLE: Pneumococcal fimbrial **protein A**
 INVENTOR(S): Russell, Harold, Atlanta, GA, United States
 Sampson, Jacquelyn, College Park, GA, United States
 O'Connor, Steven P., Roswell, GA, United States
 PATENT ASSIGNEE(S): The United States of America as represented by the
 United States Department of Health and Human Services,
 Washington, DC, United States (U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5422427		19950606
APPLICATION INFO.:	US 1991-791377		19910917 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Furman, Keith C.		
ASSISTANT EXAMINER:	Kim, Hyosuk		
LEGAL REPRESENTATIVE:	Needle & Rosenberg		
NUMBER OF CLAIMS:	4		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	3 Drawing Figure(s); 3 Drawing Page(s)		
LINE COUNT:	574		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 94 OF 94 USPATFULL
 ACCESSION NUMBER: 94:66274 USPATFULL
 TITLE: Cytokine and hormone carriers for conjugate
vaccines
 INVENTOR(S): Pillai, Subramonia, Rochester, NY, United States
 Eby, Ronald, Rochester, NY, United States
 PATENT ASSIGNEE(S): American Cyanamid Company, Wayne, NJ, United States
 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5334379		19940802
APPLICATION INFO.:	US 1990-553901		19900716 (7)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1989-380566, filed on 14 Jul 1989		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Kim, Kay K.		
LEGAL REPRESENTATIVE:	Tsevdos, Estelle J.		
NUMBER OF CLAIMS:	17		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	7 Drawing Figure(s); 8 Drawing Page(s)		
LINE COUNT:	685		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=>

LE 'HOME' ENTERED AT 20:02:20 ON 29 APR 2002)

FILE 'BIOSIS, CABA, CAPLUS, EMBASE, LIFESCI, MEDLINE, SCISEARCH,
USPATFULL, JAPIO' ENTERED AT 20:02:27 ON 29 APR 2002

L1	8058 S MORAXELLA CATARRHALIS
L2	5773 S BRANHAMELLA CATARRHALIS
L3	706 S L1 AND (PROTEINS OR PEPTIDES OR POLYPEPTIDES)
L4	562 S L2 AND (PROTEINS OR PEPTIDES OR POLYPEPTIDES)
L5	141 S L1 AND FRAGMENTS
L6	187 S L2 AND FRAGMENTS
L7	94 DUP REM L5 (47 DUPLICATES REMOVED)
L8	137 DUP REM L6 (50 DUPLICATES REMOVED)
L9	53 S L7 AND VACCIN?
L10	86 S L8 AND VACCIN?
L11	53 DUP REM L9 (0 DUPLICATES REMOVED)
L12	86 DUP REM L10 (0 DUPLICATES REMOVED)
L13	1 S BASB034 POLYPEPTIDES

L11 ANSWER 1 OF 53 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2002:172097 CAPLUS

DOCUMENT NUMBER: 136:211961

TITLE: **Moraxella catarrhalis** polypeptides
and corresponding DNA **fragments** and uses for
immunization against infection

INVENTOR(S): Loosmore, Sheena; Wang, Joe; Bradley, Bill; Ochs,
Martina; Yang, Yan-ping

PATENT ASSIGNEE(S): Aventis Pasteur Limited, Can.

SOURCE: PCT Int. Appl., 277 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002018595	A2	20020307	WO 2001-CA1221	20010828
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
PRIORITY APPLN. INFO.:			US 2000-228294P	P 20000828
			US 2000-228295P	P 20000828
			US 2000-228296P	P 20000828
			US 2000-228438P	P 20000829
			US 2000-228439P	P 20000829
			US 2000-228440P	P 20000829
			US 2000-228441P	P 20000829
			US 2000-228442P	P 20000829
			US 2000-228443P	P 20000829
			US 2000-228511P	P 20000829
			US 2000-228512P	P 20000829
			US 2000-228742P	P 20000829
			US 2000-228773P	P 20000829
			US 2000-229465P	P 20000901
			US 2000-229474P	P 20000901
			US 2000-229475P	P 20000901
			US 2000-229478P	P 20000901
			US 2000-229740P	P 20000905
			US 2000-229803P	P 20000905
			US 2000-229804P	P 20000905
			US 2000-229805P	P 20000905
			US 2000-229806P	P 20000905
			US 2000-229809P	P 20000905
			US 2000-229811P	P 20000905
			US 2000-230214P	P 20000906
			US 2000-230250P	P 20000906
			US 2000-230252P	P 20000906

L11 ANSWER 2 OF 53 USPATFULL

ACCESSION NUMBER: 2002:92244 USPATFULL

TITLE: Hybridization probes derived from the spacer region
between the 16S and 23S rRNA genes for the detection of
non-viral microorganisms

INVENTOR(S): Rossau, Rudi, Ekeren, BELGIUM
Van Heuverswyn, Hugo, Laarne, BELGIUM

PATENT ASSIGNEE(S): N. V. Innogenetics S.A. (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002048762	A1	20020425
APPLICATION INFO.:	US 2001-863086	A1	20010522 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1999-312520, filed on 14 May 1999, GRANTED, Pat. No. US 6277577 Continuation of Ser. No. US 1996-635761, filed on 22 Apr 1996, GRANTED, Pat. No. US 5945282 Continuation of Ser. No. US 1995-412614, filed on 29 Mar 1995, GRANTED, Pat. No. US 5536638 Continuation of Ser. No. US 1992-965394, filed on 17 Dec 1992, ABANDONED		

	NUMBER	DATE
PRIORITY INFORMATION:	GB 1990-401054	19900418
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Atten: Mark T. Skoog, MERCHANT & GOULD P.C., P.O. Box 2903, Minneapolis, MN, 55402-0903	
NUMBER OF CLAIMS:	40	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	10 Drawing Page(s)	
LINE COUNT:	3828	

L11 ANSWER 3 OF 53 USPATFULL
 ACCESSION NUMBER: 2002:61226 USPATFULL
 TITLE: COMPOSITIONS AND METHODS FOR TREATING INFECTIONS USING CATIONIC PEPTIDES ALONE OR IN COMBINATION WITH ANTIBIOTICS
 INVENTOR(S): KRIEGER, TIMOTHY J., RICHMOND, CANADA
 TAYLOR, ROBERT, SURREY, CANADA
 ERFLE, DOUGLAS, VANCOUVER, CANADA
 FRASER, JANET R., VANCOUVER, CANADA
 WEST, MICHAEL H.P., VANCOUVER, CANADA
 MCNICHOL, PATRICIA J., COQUITLAM, CANADA

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002035061	A1	20020321
APPLICATION INFO.:	US 1998-30619	A1	19980227 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1997-915314, filed on 20 Aug 1997, GRANTED, Pat. No. US 6180604		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-40649P	19970310 (60)
	US 1997-60099P	19970926 (60)
	US 1996-24754P	19960821 (60)
	US 1997-34949P	19970113 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	SEED INTELLECTUAL PROPERTY LAW GROUP PLLC, 701 FIFTH AVE, SUITE 6300, SEATTLE, WA, 98104-7092	
NUMBER OF CLAIMS:	94	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	33 Drawing Page(s)	
LINE COUNT:	7074	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L11 ANSWER 4 OF 53 USPATFULL
 ACCESSION NUMBER: 2002:31962 USPATFULL
 TITLE: NEISSERIA MENINGITIDIS POLYPEPTIDE, NUCLEIC ACID SEQUENCE AND USES THEREOF

INVENTOR(S): JACKSON, W. JAMES, MARRIOTSVILLE, MD, UNITED STATES
HARRIS, ANDREA M., FREDERICK, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002018782	A1	20020214
APPLICATION INFO.:	US 1999-388089	A1	19990831 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-98685P	19980901 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	PENNIE & EDMONDS LLP, 1155 AVENUE OF THE AMERICAS, NEW YORK, NY, 100362711	
NUMBER OF CLAIMS:	51	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	
LINE COUNT:	2870	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 5 OF 53 USPATFULL

ACCESSION NUMBER: 2002:34191 USPATFULL
TITLE: Lactoferrin receptor protein
INVENTOR(S): Schryvers, Anthony B., Calgary, CANADA
Bonnah, Robert A., Calgary, CANADA
PATENT ASSIGNEE(S): Aventis Pasteur Limited, Toronto, CANADA (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6348198	B1	20020219
APPLICATION INFO.:	US 1999-371127		19990810 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-552232, filed on 2 Nov 1995, now patented, Pat. No. US 6048539		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Graser, Jennifer E.		
LEGAL REPRESENTATIVE:	Sim & McBurney		
NUMBER OF CLAIMS:	26		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 1 Drawing Page(s)		
LINE COUNT:	1257		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 6 OF 53 USPATFULL

ACCESSION NUMBER: 2002:24053 USPATFULL
TITLE: Lactoferrin receptor protein
INVENTOR(S): Schryvers, Anthony B., Calgary, CANADA
Bonnah, Robert A., Calgary, CANADA
PATENT ASSIGNEE(S): Aventis Pasteur Limited, Toronto, CANADA (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6344200	B1	20020205
APPLICATION INFO.:	US 1999-371126		19990810 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-552232, filed on 2 Nov 1995, now patented, Pat. No. US 6048539		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Graser, Jennifer E.		
LEGAL REPRESENTATIVE:	Sim & McBurney		
NUMBER OF CLAIMS:	4		

EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Figure(s); 1 Drawing Page(s)
LINE COUNT: 1153
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 7 OF 53 USPATFULL

ACCESSION NUMBER: 2002:1088 USPATFULL
TITLE: Recombinant Haemophilus influenzae adhesin proteins
INVENTOR(S): Loosmore, Sheena M., Aurora, CANADA
Yang, Yan Ping, Willowdale, CANADA
Klein, Michel H., Willowdale, CANADA
PATENT ASSIGNEE(S): Aventis Pasteur Limited, Toronto, CANADA (non-U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6335182	B1	20020101
APPLICATION INFO.:	US 1999-268347		19990316 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Graser, Jennifer E.		
LEGAL REPRESENTATIVE:	Sim & McBurney		
NUMBER OF CLAIMS:	24		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	206 Drawing Figure(s); 201 Drawing Page(s)		
LINE COUNT:	2173		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 8 OF 53 USPATFULL

ACCESSION NUMBER: 2002:931 USPATFULL
TITLE: High molecular weight major outer membrane protein of moraxella
INVENTOR(S): Sasaki, Ken, Willowdale, CANADA
Harkness, Robin E., Willowdale, CANADA
Klein, Michel H., Willowdale, CANADA
PATENT ASSIGNEE(S): Aventis Pasteur Limited, Toronto, CANADA (non-U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6335018	B1	20020101
APPLICATION INFO.:	US 1995-431718		19950501 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Minnifield, Nita		
LEGAL REPRESENTATIVE:	Sim & McBurney		
NUMBER OF CLAIMS:	9		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	5 Drawing Figure(s); 17 Drawing Page(s)		
LINE COUNT:	1398		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 9 OF 53 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:78537 CAPLUS
DOCUMENT NUMBER: 134:144470
TITLE: A high molecular weight major outer membrane protein of Moraxella and the gene encoding it and the diagnosis, prophylaxis and treatment of infection
INVENTOR(S): Loosmore, Sheena M.; Sasaki, Ken; Yang, Yan-Ping; Klein, Michel H.
PATENT ASSIGNEE(S): Connaught Laboratories Limited, Can.
SOURCE: PCT Int. Appl., 247 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001007619	A1	20010201	WO 2000-CA870	20000726
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.: US 1999-361619 A2 19990727
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 10 OF 53 USPATFULL
ACCESSION NUMBER: 2001:134223 USPATFULL
TITLE: HIGH MOLECULAR WEIGHT MAJOR OUTER MEMBRANE PROTEIN OF MORAXELLA
INVENTOR(S): SASAKI, KEN, WILLOWDALE, Canada
HARKNESS, ROBIN E., WILLOWDALE, Canada
LOOSMORE, SHEENA M., AURORA, Canada
CHONG, PELE, RICHMOND HILL, Canada
KLEIN, MICHEL H., WILLOWDALE, Canada

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2001014672	A1	20010816
APPLICATION INFO.:	US 1998-945567	A1	19980319 (8)
	WO 1996-CA264		19960429
			None PCT 102(e) date

	NUMBER	DATE
PRIORITY INFORMATION:	US 1995-8431718	19950501
	US 1995-8478370	19950607
	US 1996-8621944	19960320
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	SIM & MCBURNEY, 6TH FLOOR, 330 UNIVERSITY AVENUE, TORONTO ONTARIO	
NUMBER OF CLAIMS:	37	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	47 Drawing Page(s)	
LINE COUNT:	1689	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L11 ANSWER 11 OF 53 USPATFULL
ACCESSION NUMBER: 2001:191256 USPATFULL
TITLE: USPA1 and USPA2 antigens of **Moraxella catarrhalis**
INVENTOR(S): Hansen, Eric J., Plano, TX, United States
Aebi, Christoph, Gasel, Switzerland
Cope, Leslie D., Mesquite, TX, United States
Maciver, Isobel, Cottage Grove, WI, United States
Fiske, Michael J., Rochester, NY, United States
Fredenburg, Ross A., Rochester, NY, United States
PATENT ASSIGNEE(S): Board of Regents, The University of Texas, Austin, TX, United States (U.S. corporation)

American Cyanamid, Madison, NJ, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6310190	B1	20011030
APPLICATION INFO.:	US 1999-336447		19990621 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. WO 1997-US23930, filed on 19 Dec 1997		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-33598P	19961220 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Jones, W. Gary	
ASSISTANT EXAMINER:	Soudaya, Jehanne	
LEGAL REPRESENTATIVE:	Fulbright & Jaworski	
NUMBER OF CLAIMS:	2	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	28 Drawing Figure(s); 17 Drawing Page(s)	
LINE COUNT:	4794	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L11 ANSWER 12 OF 53 USPATFULL
ACCESSION NUMBER: 2001:157808 USPATFULL
TITLE: Transferrin receptor protein of Moraxella
INVENTOR(S): Yang, Yan-Ping, Willowdale, Canada
Myers, Lisa E., Guelph, Canada
Harkness, Robin E., Willowdale, Canada
Klein, Michel H., Willowdale, Canada
PATENT ASSIGNEE(S): Aventis Pasteur Limited, Toronto, Canada (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6290970	B1	20010918
APPLICATION INFO.:	US 1995-540753		19951011 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Minnifield, Nita		
LEGAL REPRESENTATIVE:	Sim & McBurney		
NUMBER OF CLAIMS:	7		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	12 Drawing Figure(s); 8 Drawing Page(s)		
LINE COUNT:	1199		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L11 ANSWER 13 OF 53 USPATFULL
ACCESSION NUMBER: 2001:152492 USPATFULL
TITLE: Proteinase K resistant surface protein of neisseria meningitidis
INVENTOR(S): Brodeur, Bernard R., Sillery, Canada
Martin, Denis, St-Augustin-de-Des Maures, Canada
Hamel, Josee, Sillery, Canada
Rioux, Clement, Ville-de-Cap-Rouge, Canada
PATENT ASSIGNEE(S): BioChem Pharma Inc., Quebec, Canada (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6287574	B1	20010911
APPLICATION INFO.:	US 1997-913362		19971113 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1995-406362, filed on 17		

Mar 1995, now abandoned

	NUMBER	DATE
PRIORITY INFORMATION:	US 1995-1983P	19950804 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Graser, Jennifer	
LEGAL REPRESENTATIVE:	Foley & Lardner	
NUMBER OF CLAIMS:	9	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	27 Drawing Figure(s); 23 Drawing Page(s)	
LINE COUNT:	2034	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L11 ANSWER 14 OF 53 USPATFULL
ACCESSION NUMBER: 2001:136382 USPATFULL
TITLE: Hybridization probes derived from the spacer region between the 16s and 23s RRNA genes for the detection of non-viral microorganisms
INVENTOR(S): Rossau, Rudi, Ekeren, Belgium
Van Heuverswyn, Hugo, Laarne, Belgium
PATENT ASSIGNEE(S): N.V. Innogenetics S.A., Ghent, Belgium (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6277577	B1	20010821
APPLICATION INFO.:	US 1999-312520		19990514 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1996-635761, filed on 22 Apr 1996, now patented, Pat. No. US 5945282 Continuation of Ser. No. US 1995-412614, filed on 29 Mar 1995, now patented, Pat. No. US 5536638 Continuation of Ser. No. US 1992-965394, filed on 17 Dec 1992, now abandoned		

	NUMBER	DATE
PRIORITY INFORMATION:	GB 1990-401054	19900418
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Myers, Carla J.	
LEGAL REPRESENTATIVE:	Merchant & Gould P.C.	
NUMBER OF CLAIMS:	52	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	10 Drawing Figure(s); 10 Drawing Page(s)	
LINE COUNT:	2873	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L11 ANSWER 15 OF 53 USPATFULL
ACCESSION NUMBER: 2001:117172 USPATFULL
TITLE: Isolated FrpB nucleic acid molecule
INVENTOR(S): Sparling, P. Frederick, Moncure, NC, United States
Beucher, Margaret, Connelleville, PA, United States
PATENT ASSIGNEE(S): University of North Carolina at Chapel Hill, Chapel Hill, NC, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6265567	B1	20010724
APPLICATION INFO.:	US 1996-628434		19960405 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1995-418964, filed on 7 Apr 1995, now abandoned		
DOCUMENT TYPE:	Utility		

FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Wortman, Donna C.
LEGAL REPRESENTATIVE: Gallagher, Thomas C.
NUMBER OF CLAIMS: 2
EXEMPLARY CLAIM: 1
LINE COUNT: 1100
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 16 OF 53 USPATFULL

ACCESSION NUMBER: 2001:82536 USPATFULL
TITLE: Treatment of bacterial infections
INVENTOR(S): Bjorck, Lars, Lund, Sweden
Sjorbring, Ulf, Lund, Sweden
Nasr, Abdelhakim Ben, Cambridge, United Kingdom
Olsen, Arne, Bjarred, Sweden
Herwald, Heiko, Malmo, Sweden
Muller-Esterl, Werner, Mainz, Germany, Federal Republic
of
Mattsson, Eva, Lund, Sweden
PATENT ASSIGNEE(S): Actinova Limited, United Kingdom (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6242210	B1	20010605
APPLICATION INFO.:	US 1999-258688		19990226 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 194098		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Leary, Louise N.		
LEGAL REPRESENTATIVE:	Seed IP Law Group		
NUMBER OF CLAIMS:	5		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	40 Drawing Figure(s); 18 Drawing Page(s)		
LINE COUNT:	2437		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 17 OF 53 USPATFULL

ACCESSION NUMBER: 2001:59866 USPATFULL
TITLE: Use of kinin antagonists for preparing a pharmaceutical
composition for treating bacterial infections
INVENTOR(S): Bjorck, Lars, Lund, Sweden
Sjorbring, Ulf, Lund, Sweden
Nasr, Abdelhakim Ben, Cambridge, United Kingdom
Olsen, Arne, Lund, Sweden
Herwald, Heiko, Lund, Sweden
Muller-Esterl, Werner, Mainz, Germany, Federal Republic
of
PATENT ASSIGNEE(S): Actinova Limited, Cambridge, United Kingdom (non-U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6221845	B1	20010424
	WO 9744353		19971127
APPLICATION INFO.:	US 1999-194098		19990625 (9)
	WO 1997-SE825		19970520
			19990625 PCT 371 date
			19990625 PCT 102(e) date

	NUMBER	DATE
PRIORITY INFORMATION:	SE 1996-1901	19960520
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	

PRIMARY EXAMINER: Weddington, Kevin E.
LEGAL REPRESENTATIVE: Seed IP Law Group PLLC
NUMBER OF CLAIMS: 4
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 27 Drawing Figure(s); 13 Drawing Page(s)
LINE COUNT: 1607
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 18 OF 53 USPATFULL
ACCESSION NUMBER: 2001:59389 USPATFULL
TITLE: NucA protein of Haemophilus influenzae
INVENTOR(S): Jones, Kevin F., New York, NY, United States
PATENT ASSIGNEE(S): American Cyanamid Company, Madison, NJ, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6221365	B1	20010424
	WO 9804103		19980205
APPLICATION INFO.:	US 1998-43711		19980320 (9)
	WO 1997-US12790		19970723
			19980320 PCT 371 date
			19980320 PCT 102(e) date
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1996-687865, filed on 26 Jul 1996, now patented, Pat. No. US 5955596		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-22619P	19960726 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Graser, Jennifer	
LEGAL REPRESENTATIVE:	Gordon, Alan M.	
NUMBER OF CLAIMS:	4	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	17 Drawing Figure(s); 15 Drawing Page(s)	
LINE COUNT:	2137	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L11 ANSWER 19 OF 53 USPATFULL
ACCESSION NUMBER: 2001:52204 USPATFULL
TITLE: **Moraxella catarrhalis** outer
membrane protein-106 polypeptide, gene sequence and
uses thereof
INVENTOR(S): Tucker, Kenneth, Frederick, MD, United States
Plosila, Laura, Cary, NC, United States
Tillman, Ulrich F., Olney, MD, United States
PATENT ASSIGNEE(S): Antex Biologics Inc., Gaithersburg, MD, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6214981	B1	20010410
APPLICATION INFO.:	US 1997-968685		19971112 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1996-642712, filed on 3 May 1996		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Smith, Lynette R. F.		
ASSISTANT EXAMINER:	Portner, Ginny Allen		
LEGAL REPRESENTATIVE:	Pennie & Edmonds LLP		
NUMBER OF CLAIMS:	7		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	15 Drawing Figure(s); 13 Drawing Page(s)		

LINE COUNT: 2357
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 20 OF 53 USPATFULL
ACCESSION NUMBER: 2001:48215 USPATFULL
TITLE: Lactoferrin receptor protein
INVENTOR(S): Schryvers, Anthony B., Calgary, Canada
Bonnah, Robert A., Calgary, Canada
PATENT ASSIGNEE(S): Connaught Laboratories Limited, Toronto, Canada
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6211343	B1	20010403
APPLICATION INFO.:	US 1999-370869		19990810 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-552232, filed on 2 Nov 1995, now patented, Pat. No. US 6048539		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Graser, Jennifer		
LEGAL REPRESENTATIVE:	Sim & McBurney		
NUMBER OF CLAIMS:	6		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 1 Drawing Page(s)		
LINE COUNT:	1206		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 21 OF 53 USPATFULL
ACCESSION NUMBER: 2001:32810 USPATFULL
TITLE: Surface antigen
INVENTOR(S): Peak, Ian Richard Anselm, St. Lucia, Australia
Jennings, Michael Paul, Carina, Australia
Moxon, E. Richard, Oxfordshire, United Kingdom
PATENT ASSIGNEE(S): The University of Queensland, Queensland, Australia
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6197312	B1	20010306
APPLICATION INFO.:	US 1999-377155		19990819 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. WO 1998-AU1031, filed on 14 Dec 1998		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Graser, Jennifer		
LEGAL REPRESENTATIVE:	Foley & Lardner		
NUMBER OF CLAIMS:	26		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	15 Drawing Figure(s); 15 Drawing Page(s)		
LINE COUNT:	1611		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 22 OF 53 USPATFULL
ACCESSION NUMBER: 2001:25435 USPATFULL
TITLE: Transferrin receptor protein of moraxella
INVENTOR(S): Yang, Yan-Ping, Willowdale, Canada
Myers, Lisa E., Guelph, Canada
Harkness, Robin E., Willowdale, Canada
Klein, Michel H., Willowdale, Canada
PATENT ASSIGNEE(S): Connaught Laboratories Limited, Toronto, Canada
(non-U.S. corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION: US 6190668 B1 20010220
 WO 9713785 19970417
 APPLICATION INFO.: US 1998-51320 19980730 (9)
 WO 1996-CA684 19961011
 19980730 PCT 371 date
 19980730 PCT 102(e) date
 RELATED APPLN. INFO.: Continuation of Ser. No. US 1995-540753, filed on 11
 Oct 1995
 DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Minnifield, Nita
 LEGAL REPRESENTATIVE: Sim & McBurney
 NUMBER OF CLAIMS: 8
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 5 Drawing Figure(s); 8 Drawing Page(s)
 LINE COUNT: 1221
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 23 OF 53 USPATFULL
 ACCESSION NUMBER: 2001:18617 USPATFULL
 TITLE: Lactoferrin receptor genes of Moraxella
 INVENTOR(S): Loosmore, Sheena M., Aurora, Canada
 Du, Run-Pan, Thornhill, Canada
 Wang, Quijun, Thornhill, Canada
 Yang, Yan-Ping, Willowdale, Canada
 Klein, Michel H., Willowdale, Canada
 PATENT ASSIGNEE(S): Connaught Laboratories Limited, Toronto, Canada
 (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6184371	B1	20010206
APPLICATION INFO.:	US 1998-74658		19980508 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1997-867941, filed on 3 Jun 1997, now patented, Pat. No. US 5977337		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Graser, Jennifer		
LEGAL REPRESENTATIVE:	Sim & McBurney		
NUMBER OF CLAIMS:	5		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	140 Drawing Figure(s); 130 Drawing Page(s)		
LINE COUNT:	1824		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L11 ANSWER 24 OF 53 USPATFULL
 ACCESSION NUMBER: 2001:14460 USPATFULL
 TITLE: Compositions and methods for treating infections using
 analogues of indolicidin
 INVENTOR(S): Fraser, Janet R., Vancouver, Canada
 West, Michael H. P., Vancouver, Canada
 Krieger, Timothy J., Richmond, Canada
 Taylor, Robert, White Rock, Canada
 Erfle, Douglas, Vancouver, Canada
 PATENT ASSIGNEE(S): Micrologix Biotech Inc., Vancouver, Canada (non-U.S.
 corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6180604	B1	20010130
APPLICATION INFO.:	US 1997-915314		19970820 (8)
	NUMBER	DATE	

PRIORITY INFORMATION: US 1996-24754P 19960821 (60)
 US 1997-34949P 19970113 (60)
 DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Celsa, Bennett
 LEGAL REPRESENTATIVE: Seed Intellectual Property Law Group PLLC
 NUMBER OF CLAIMS: 23
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 39 Drawing Figure(s); 19 Drawing Page(s)
 LINE COUNT: 3106
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 25 OF 53 USPATFULL

ACCESSION NUMBER: 2000:91731 USPATFULL
 TITLE: DNA encoding a transferrin receptor of Moraxella
 INVENTOR(S): Myers, Lisa E., Guelph, Canada
 Schryvers, Anthony B., Calgary, Canada
 Harkness, Robin E., Willowdale, Canada
 Loosmore, Sheena M., Aurora, Canada
 Du, Run-Pan, Thornhill, Canada
 Yang, Yan-Ping, Willowdale, Canada
 Klein, Michel H., Willowdale, Canada
 PATENT ASSIGNEE(S): Connaught Laboratories Limited, North York, Canada
 (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6090576		20000718
APPLICATION INFO.:	US 1996-613009		19960308 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Hutzell, Paula K.		
ASSISTANT EXAMINER:	Pak, Michael		
LEGAL REPRESENTATIVE:	Sim & McBurney		
NUMBER OF CLAIMS:	11		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	57 Drawing Figure(s); 57 Drawing Page(s)		
LINE COUNT:	3127		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 26 OF 53 USPATFULL

ACCESSION NUMBER: 2000:61721 USPATFULL
 TITLE: Recombinant human IGA-J. chain dimer
 INVENTOR(S): Capra, J. Donald, Dallas, TX, United States
 Hexham, Jonathan M., Dallas, TX, United States
 Carayannopoulos, Leon N., St Louis, MO, United States
 Max, Edward E., Bethesda, MD, United States
 PATENT ASSIGNEE(S): Board of Regents, The University of Texas System,
 Austin, TX, United States (U.S. corporation)
 The United States of America as represented by the
 Department of Health and Human Services, Washington,
 DC, United States (U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6063905		20000516
APPLICATION INFO.:	US 1997-779597		19970107 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Eyler, Yvonne		
LEGAL REPRESENTATIVE:	Arnold, White & Durkee		
NUMBER OF CLAIMS:	102		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	7 Drawing Figure(s); 5 Drawing Page(s)		

LINE COUNT: 2003
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 27 OF 53 USPATFULL
ACCESSION NUMBER: 2000:43780 USPATFULL
TITLE: Lactoferrin receptor protein
INVENTOR(S): Schryvers, Anthony B., Calgary, Canada
Bonnah, Robert A., Calgary, Canada
PATENT ASSIGNEE(S): Connaught Laboratories Limited, North York, Canada
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6048539		20000411
APPLICATION INFO.:	US 1995-552232		19951102 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Chin, Christopher L.		
ASSISTANT EXAMINER:	Graser, Jennifer		
LEGAL REPRESENTATIVE:	Sim & McBurney		
NUMBER OF CLAIMS:	5		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 1 Drawing Page(s)		
LINE COUNT:	1328		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 28 OF 53 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1999:784268 CAPLUS
DOCUMENT NUMBER: 132:31787
TITLE: Sequences of a novel **Moraxella**
catarrhalis protein, designated BASB027, and
uses thereof in diagnostic assays and in
vaccines
INVENTOR(S): Vinals-Bassols, Carlota
PATENT ASSIGNEE(S): Smithkline Beecham Biologicals S.A., Belg.
SOURCE: PCT Int. Appl., 109 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9963093	A2	19991209	WO 1999-EP3822	19990531
WO 9963093	A3	20000302		
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
AU 9943732	A1	19991220	AU 1999-43732	19990531
AU 738896	B2	20010927		
BR 9911609	A	20010206	BR 1999-11609	19990531
EP 1082435	A2	20010314	EP 1999-926507	19990531
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI			
NO 2000006112	A	20010202	NO 2000-6112	20001201
PRIORITY APPLN. INFO.:			GB 1998-11945	A 19980603
			GB 1999-5304	A 19990308

L11 ANSWER 29 OF 53 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1999:723176 CAPLUS
 DOCUMENT NUMBER: 131:347525
 TITLE: **Moraxella catarrhalis** Basb019
 proteins and genes from **Moraxella catarrhalis** and antigens and antibodies and therapeutic applications
 INVENTOR(S): Ruelle, Jean-Louis
 PATENT ASSIGNEE(S): SmithKline Beecham Biologicals S.A., Belg.
 SOURCE: PCT Int. Appl., 101 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9957277	A2	19991111	WO 1999-EP3038	19990503
WO 9957277	A3	20000203		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG CA 2327316 AA 19991111 CA 1999-2327316 19990503 AU 9939315 A1 19991123 AU 1999-39315 19990503 EP 1075521 A2 20010214 EP 1999-922171 19990503 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI PRIORITY APPLN. INFO.: GB 1998-9683 A 19980506 WO 1999-EP3038 W 19990503				

L11 ANSWER 30 OF 53 USPATFULL
 ACCESSION NUMBER: 1999:166603 USPATFULL
 TITLE: Outer membrane protein B1 of **Moraxella catarrhalis**
 INVENTOR(S): Campagnari, Anthony A., Hamburg, NY, United States
 PATENT ASSIGNEE(S): The Research Foundation of the State University of New York, Amherst, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6004562		19991221
APPLICATION INFO.:	US 1996-698652		19960816 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Housel, James C.		
ASSISTANT EXAMINER:	Ryan, V.		
LEGAL REPRESENTATIVE:	Hodgson, Russ, Andrews, Woods & Goodyear, LLP		
NUMBER OF CLAIMS:	10		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	3 Drawing Figure(s); 2 Drawing Page(s)		
LINE COUNT:	915		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 31 OF 53 USPATFULL
 ACCESSION NUMBER: 1999:155210 USPATFULL

TITLE: Methods and compositions relating to useful antigens of
moraxella catarrhalis
INVENTOR(S): Hansen, Eric J., Plano, TX, United States
Helminen, Meria E., Helsinki, Finland
Maciver, Isobel, Dallas, TX, United States
PATENT ASSIGNEE(S): Board of Regents, The University of Texas, Austin, TX,
United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5993826		19991130
APPLICATION INFO.:	US 1993-25363		19930302 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. WO 1992-US6869, filed on 14 Aug 1992 which is a continuation-in-part of Ser. No. US 1991-745591, filed on 21 Aug 1991, now patented, Pat. No. US 5552146		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Sidberry, Hazel F.		
LEGAL REPRESENTATIVE:	Arnold White & Durkee		
NUMBER OF CLAIMS:	11		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	19 Drawing Figure(s); 17 Drawing Page(s)		
LINE COUNT:	3037		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L11 ANSWER 32 OF 53 USPATFULL
ACCESSION NUMBER: 1999:141620 USPATFULL
TITLE: Methods and compositions relating to useful antigens of
moraxella catarrhalis
INVENTOR(S): Hansen, Eric J., Plano, TX, United States
Helminen, Merja E., Helsinki, Finland
Maciver, Isobel, Dallas, TX, United States
PATENT ASSIGNEE(S): Board of Regents, The University of Texas System,
Austin, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5981213		19991109
APPLICATION INFO.:	US 1995-450351		19950525 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1993-25363, filed on 2 Mar 1993 which is a continuation-in-part of Ser. No. WO 1992-US6869, filed on 14 Aug 1992, now patented, Pat. No. WO 819315, issued on 19 Sep 1994 which is a continuation-in-part of Ser. No. US 1991-745591, filed on 21 Aug 1991, now patented, Pat. No. US 5552146		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Housel, James C.		
ASSISTANT EXAMINER:	Shaver, Jennifer		
LEGAL REPRESENTATIVE:	Arnold, White & Durkee		
NUMBER OF CLAIMS:	23		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	13 Drawing Figure(s); 17 Drawing Page(s)		
LINE COUNT:	3099		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L11 ANSWER 33 OF 53 USPATFULL
ACCESSION NUMBER: 1999:137485 USPATFULL
TITLE: Lactoferrin receptor genes of Moraxella
INVENTOR(S): Loosmore, Sheena M., Aurora, Canada
Du, Run-Pan, Thornhill, Canada
Wang, Quijun, Thornhill, Canada
Yang, Yan-Ping, Willowdale, Canada

PATENT ASSIGNEE(S): Klein, Michel H., Willowdale, Canada
Connaught Laboratories Limited, North York, Canada
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5977337		19991102
APPLICATION INFO.:	US 1997-867941		19970603 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Housel, James C.		
ASSISTANT EXAMINER:	Graser, Jennifer		
LEGAL REPRESENTATIVE:	Sim & McBurney		
NUMBER OF CLAIMS:	7		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	15 Drawing Figure(s); 111 Drawing Page(s)		
LINE COUNT:	4335		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 34 OF 53 USPATFULL
ACCESSION NUMBER: 1999:132546 USPATFULL
TITLE: Gene encoding outer membrane protein B1 of
moraxella catarrhalis
INVENTOR(S): Murphy, Timothy F., Amherst, NY, United States
Sethi, Sanjay, Williamsville, NY, United States
PATENT ASSIGNEE(S): The Research Foundation of State University of New
York, Amherst, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5972657		19991026
APPLICATION INFO.:	US 1997-949941		19971014 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Caputa, Anthony C.		
ASSISTANT EXAMINER:	Navarro, Mark		
LEGAL REPRESENTATIVE:	Hodgson, Russ, Andrews, Woods & Goodyear, LLP		
NUMBER OF CLAIMS:	18		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1308		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 35 OF 53 USPATFULL
ACCESSION NUMBER: 1999:128385 USPATFULL
TITLE: Sequence and analysis of LKP pilin structural genes and
the LKP pili operon of nontypable Haemophilus
influenzae
INVENTOR(S): Green, Bruce A., Pittsford, NY, United States
Brinton, Jr., Charles C., Export, PA, United States
PATENT ASSIGNEE(S): American Cyanamid Co. and Bactex, Inc., Madison, NJ,
United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5968769		19991019
APPLICATION INFO.:	US 1995-477326		19950607 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1994-277231, filed on 19 Jul 1994, now patented, Pat. No. US 5643725		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Jones, W. Gary		
ASSISTANT EXAMINER:	Shoemaker, Debra		
LEGAL REPRESENTATIVE:	Hamilton, Brook, Smith & Reynolds, P.C.		
NUMBER OF CLAIMS:	13		

EXEMPLARY CLAIM: 12
NUMBER OF DRAWINGS: 20 Drawing Figure(s); 14 Drawing Page(s)
LINE COUNT: 2539
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 36 OF 53 USPATFULL

ACCESSION NUMBER: 1999:113881 USPATFULL
TITLE: NucA protein of Haemophilus influenzae and the gene encoding that protein
INVENTOR(S): Zagursky, Robert J., Victor, NY, United States
Ooi, Peggy, Mendon, NY, United States
PATENT ASSIGNEE(S): American Cyanamid Company, Madison, NJ, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5955596		19990921
APPLICATION INFO.:	US 1996-687865		19960726 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Housel, James C.		
ASSISTANT EXAMINER:	Shaver, Jennifer		
LEGAL REPRESENTATIVE:	Gordon, Alan M.		
NUMBER OF CLAIMS:	13		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	17 Drawing Figure(s); 15 Drawing Page(s)		
LINE COUNT:	2580		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 37 OF 53 USPATFULL

ACCESSION NUMBER: 1999:106092 USPATFULL
TITLE: **Vaccine for Moraxella catarrhalis**
INVENTOR(S): Murphy, Timothy F., East Amherst, NY, United States
PATENT ASSIGNEE(S): The Research Foundation of State University of New York, Amherst, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5948412		19990907
APPLICATION INFO.:	US 1997-810655		19970303 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1994-245758, filed on 17 May 1994, now patented, Pat. No. US 5607846		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Degen, Nancy		
ASSISTANT EXAMINER:	Schwartzman, Robert		
LEGAL REPRESENTATIVE:	Hodgson, Russ, Andrews Woods & Goodyear, LLP		
NUMBER OF CLAIMS:	17		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	3 Drawing Figure(s); 2 Drawing Page(s)		
LINE COUNT:	1552		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 38 OF 53 USPATFULL

ACCESSION NUMBER: 1999:102671 USPATFULL
TITLE: Hybridization probes derived from the spacer region between the 16S and 23S rRNA genes for the detection of non-viral microorganisms
INVENTOR(S): Rossau, Rudi, Ekeren, Belgium
Van Heuverswyn, Hugo, Laarne, Belgium
PATENT ASSIGNEE(S): N.V. Innogenetics S.A., Ghent, Belgium (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5945282		19990831
APPLICATION INFO.:	US 1996-635761		19960422 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1995-412614, filed on 29 Mar 1995, now patented, Pat. No. US 5536638 which is a continuation of Ser. No. US 965394		

	NUMBER	DATE
PRIORITY INFORMATION:	GB 1990-401054	19900418
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Meyers, Carla J.	
LEGAL REPRESENTATIVE:	Merchant, Gould, Smith, Edell, Welter & Schmidt, P.A.	
NUMBER OF CLAIMS:	46	
EXEMPLARY CLAIM:	1,13	
NUMBER OF DRAWINGS:	10 Drawing Figure(s); 10 Drawing Page(s)	
LINE COUNT:	3628	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L11 ANSWER 39 OF 53 USPATFULL

ACCESSION NUMBER: 1998:138635 USPATFULL

TITLE: Sequence and analysis of LKP pilin structural genes and the LKP pili operon of nontypable Haemophilus influenzae

INVENTOR(S): Green, Bruce A., Pittsford, NY, United States
Brinton, Jr., Charles C., Export, PA, United States

PATENT ASSIGNEE(S): Bactex, Inc., Pittsburgh, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5834187		19981110
APPLICATION INFO.:	US 1995-473750		19950607 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1994-277231, filed on 19 Jul 1994		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Jones, W. Gary		
ASSISTANT EXAMINER:	Rees, Dianne		
NUMBER OF CLAIMS:	25		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	20 Drawing Figure(s); 14 Drawing Page(s)		
LINE COUNT:	2092		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L11 ANSWER 40 OF 53 USPATFULL

ACCESSION NUMBER: 1998:112095 USPATFULL

TITLE: Nucleic acids encoding high molecular weight major outer membrane protein of moraxella

INVENTOR(S): Sasaki, Ken, 1131 Steeles Avenue, West, Apt. No. 512, Willowdale, Ontario, Canada M2R 3W8
Harkness, Robin E., 640 Sheppard Avenue, East, Apt. #1706, Willowdale, Ontario, Canada M2K 1B8
Loosmore, Sheena M., 70 Crawford Rose Drive, Aurora, Ontario, Canada L4G 4R4
Klein, Michel H., 16 Munro Boulevard, Willowdale, Ontario, Canada M2P 1B9

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5808024		19980915
APPLICATION INFO.:	US 1995-478370		19950607 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1995-431718, filed on 1 May 1995

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted

PRIMARY EXAMINER: Walsh, Stephen

ASSISTANT EXAMINER: Sorensen, Kenneth A.

NUMBER OF CLAIMS: 13

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 18 Drawing Figure(s); 17 Drawing Page(s)

LINE COUNT: 1481

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 41 OF 53 USPATFULL

ACCESSION NUMBER: 1998:61433 USPATFULL

TITLE: Methods and compositions relating to useful antigens of ***moraxella catarrhalis***

INVENTOR(S): Hansen, Eric J., Plano, TX, United States
Maciver, Isobel, Dallas, TX, United States
Helminen, Merja, Helsinki, Finland

PATENT ASSIGNEE(S): Board of Regents, The University of Texas System,
United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5759813		19980602
APPLICATION INFO.:	US 1994-193150		19940919 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1991-745591, filed on 15 Aug 1991, now patented, Pat. No. US 5552146		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Hutzell, Paula K.		
ASSISTANT EXAMINER:	Navarro, Mark		
LEGAL REPRESENTATIVE:	Arnold, White & Durkee		
NUMBER OF CLAIMS:	15		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	5 Drawing Figure(s); 3 Drawing Page(s)		
LINE COUNT:	1732		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 42 OF 53 USPATFULL

ACCESSION NUMBER: 1998:24926 USPATFULL

TITLE: **Vaccine** for branhamelia catarrhalis

INVENTOR(S): Murphy, Timothy F., East Amherst, NY, United States

PATENT ASSIGNEE(S): Research Foundation of State University of New York,
Amherst, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5725862		19980310
APPLICATION INFO.:	US 1995-569959		19951208 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1994-306871, filed on 20 Sep 1994, now patented, Pat. No. US 5712118 which is a continuation-in-part of Ser. No. US 1993-129719, filed on 29 Sep 1993, now patented, Pat. No. US 5556755		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Minnifield, N. M.		
LEGAL REPRESENTATIVE:	Hodgson, Russ, Andrews Woods & Goodyear		
NUMBER OF CLAIMS:	16		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	6 Drawing Figure(s); 3 Drawing Page(s)		
LINE COUNT:	1877		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 43 OF 53 USPATFULL
 ACCESSION NUMBER: 1998:9349 USPATFULL
 TITLE: **Vaccine** for branhamella catarrhalis
 INVENTOR(S): Murphy, Timothy F., East Amherst, NY, United States
 PATENT ASSIGNEE(S): Research Foundation of State University of New York,
 Amherst, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5712118		19980127
APPLICATION INFO.:	US 1994-306871		19940920 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1993-129719, filed on 29 Sep 1993, now patented, Pat. No. US 5556755, issued on 17 Sep 1996		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Hutzell, Paula K.		
ASSISTANT EXAMINER:	Minnifield, N. M.		
LEGAL REPRESENTATIVE:	Hodgson, Russ, Andrews, Woods & Goodyear		
NUMBER OF CLAIMS:	9		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	6 Drawing Figure(s); 3 Drawing Page(s)		
LINE COUNT:	1838		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L11 ANSWER 44 OF 53 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1997:740412 CAPLUS
 DOCUMENT NUMBER: 128:21856
 TITLE: **Moraxella catarrhalis** outer
 membrane protein-106 polypeptide: sequence and
 immunogenicity
 INVENTOR(S): Tucker, Kenneth; Plosila, Laura
 PATENT ASSIGNEE(S): Antex Biologics, Inc., USA
 SOURCE: PCT Int. Appl., 77 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9741731	A1	19971113	WO 1997-US7679	19970428
W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, GH, HU, IL, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9731180	A1	19971126	AU 1997-31180	19970428
AU 723528	B2	20000831		
EP 900025	A1	19990310	EP 1997-926409	19970428
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, LT, LV, FI, RO				
CN 1223549	A	19990721	CN 1997-195990	19970428
BR 9711090	A	19990817	BR 1997-11090	19970428
JP 2000510696	T2	20000822	JP 1997-540156	19970428
ZA 9703809	A	19971201	ZA 1997-3809	19970502
NO 9805113	A	19981228	NO 1998-5113	19981102
KR 2000010734	A	20000225	KR 1998-708845	19981103
PRIORITY APPLN. INFO.:			US 1996-642712 A	19960503
			WO 1997-US7679 W	19970428

L11 ANSWER 45 OF 53 USPATFULL
 ACCESSION NUMBER: 97:56491 USPATFULL
 TITLE: Sequence and analysis of LKP pilin structural genes and the LKP pili operon of nontypable haemophilus influenzae
 INVENTOR(S): Green, Bruce A., Pittsford, NY, United States
 Brinton, Jr., Charles C., Export, PA, United States
 PATENT ASSIGNEE(S): American Cyanamid Company, Wayne, NJ, United States (U.S. corporation)
 Bactex, Inc., Pittsburgh, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5643725		19970701
APPLICATION INFO.:	US 1994-277231		19940719 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Jones, W. Gary		
ASSISTANT EXAMINER:	Rees, Dianne		
LEGAL REPRESENTATIVE:	Hamilton, Brook, Smith & Reynolds, P.C.		
NUMBER OF CLAIMS:	4		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	1 Drawing Figure(s); 1 Drawing Page(s)		
LINE COUNT:	1157		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 46 OF 53 USPATFULL
 ACCESSION NUMBER: 97:18072 USPATFULL
 TITLE: **Vaccine for moraxella catarrhalis**
 INVENTOR(S): Murphy, Timothy F., East Amherst, NY, United States
 Bhushan, Reva, North Potomac, MD, United States
 PATENT ASSIGNEE(S): Research Foundation of State University of New York, Amherst, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5607846		19970304
APPLICATION INFO.:	US 1994-245758		19940517 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Guzo, David		
ASSISTANT EXAMINER:	Schwartzman, Robert		
LEGAL REPRESENTATIVE:	Hodgson, Russ, Andrews, Woods & Goodyear		
NUMBER OF CLAIMS:	8		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	3 Drawing Figure(s); 2 Drawing Page(s)		
LINE COUNT:	1262		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 47 OF 53 USPATFULL
 ACCESSION NUMBER: 97:9925 USPATFULL
 TITLE: Methods and compositions relating to useful antigens of **moraxella catarrhalis**
 INVENTOR(S): Hansen, Eric J., Plano, TX, United States
 Helminen, Merja, Dallas, TX, United States
 Maciver, Isobel, Dallas, TX, United States
 PATENT ASSIGNEE(S): American Cyanamid Company, Wayne, NJ, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5599693		19970204

APPLICATION INFO.: US 1995-450002 19950525 (8)
RELATED APPLN. INFO.: Division of Ser. No. US 1991-745591, filed on 15 Aug 1991
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Housel, James C.
ASSISTANT EXAMINER: Murthy, Prasad
LEGAL REPRESENTATIVE: Arnold White & Durkee
NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 3 Drawing Figure(s); 2 Drawing Page(s)
LINE COUNT: 1620
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 48 OF 53 USPATFULL
ACCESSION NUMBER: 96:85036 USPATFULL
TITLE: Method for detecting Branhamella catarrhalis
INVENTOR(S): Murphy, Timothy F., East Amherst, NY, United States
PATENT ASSIGNEE(S): The Research Foundation of State University of New York, Amherst, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5556755		19960917
APPLICATION INFO.:	US 1993-129719		19930929 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Zitomer, Stephanie W.		
ASSISTANT EXAMINER:	Sisson, Bradley L.		
LEGAL REPRESENTATIVE:	Hodgson, Russ, Andrews, Woods & Goodyear		
NUMBER OF CLAIMS:	10		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	6 Drawing Figure(s); 3 Drawing Page(s)		
LINE COUNT:	1223		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 49 OF 53 USPATFULL
ACCESSION NUMBER: 96:80017 USPATFULL
TITLE: Methods and compositions relating to useful antigens of **Moraxella catarrhalis**
INVENTOR(S): Hansen, Eric J., Plano, TX, United States
Helminen, Merja, Dallas, TX, United States
Maciver, Isobel, Dallas, TX, United States
PATENT ASSIGNEE(S): Board of Regents, The University of Texas System, Austin, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5552146		19960903
APPLICATION INFO.:	US 1991-745591		19910815 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Sidberry, Hazel F.		
LEGAL REPRESENTATIVE:	Arnold, White & Durkee		
NUMBER OF CLAIMS:	7		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	3 Drawing Figure(s); 2 Drawing Page(s)		
LINE COUNT:	1597		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L11 ANSWER 50 OF 53 USPATFULL
ACCESSION NUMBER: 96:63029 USPATFULL
TITLE: Hybridization probes derived from the spacer region between the 16S and 23S rRNA genes for the detection of

INVENTOR(S): Neisseria gonorrhoeae
Rossau, Rudi, Ekeren, Belgium
Van Heuverswyn, Hugo, Laarne, Belgium
PATENT ASSIGNEE(S): N.V. Innogenetics S.A., Belgium (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5536638		19960716
APPLICATION INFO.:	US 1995-412614		19950329 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1992-965394, filed on 17 Dec 1992, now abandoned		

	NUMBER	DATE
PRIORITY INFORMATION:	GB 1990-401054	19900418
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Jones, W. Gary	
ASSISTANT EXAMINER:	Myers, Carla	
LEGAL REPRESENTATIVE:	Merchant, Gould, Smith, Edell, Welter & Schmidt	
NUMBER OF CLAIMS:	3	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	10 Drawing Figure(s); 10 Drawing Page(s)	
LINE COUNT:	2415	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L11 ANSWER 51 OF 53 USPATFULL
ACCESSION NUMBER: 96:16755 USPATFULL
TITLE: Pseudomonas peptide composition and method
INVENTOR(S): Hodges, Robert S., Edmonton, Canada
Paranchych, William, Edmonton, Canada
Irvin, Randall T., Sherwood Park, Canada
Lee, Kok K., Edmonton, Canada
Parimi, Sastry A., Edmonton, Canada
Zoutman, Dick E., Edmonton, Canada
Doig, Peter C., Victoria, Canada
Wong, Wah Y., Edmonton, Canada
PATENT ASSIGNEE(S): S.P.I. Synthetic Peptides Incorporated, Canada
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5494672		19960227
APPLICATION INFO.:	US 1991-638492		19910104 (7)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1989-344565, filed on 28 Apr 1989		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Sidberry, Hazel F.		
LEGAL REPRESENTATIVE:	Stratford, Carol A., Dehlinger, Peter J.		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	21 Drawing Figure(s); 15 Drawing Page(s)		
LINE COUNT:	1803		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L11 ANSWER 52 OF 53 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1992:632042 CAPLUS
DOCUMENT NUMBER: 117:232042
TITLE: Pseudomonas peptide composition, method for producing it, and use
INVENTOR(S): Hodges, Robert S.; Paranchych, William; Irvin, Randall T.; Lee, Kok Kheong; Parimi, Sastry A.; Zoutmon, Dick Eric; Doig, Peter C.; Wong, Wah Yau

PATENT ASSIGNEE(S): Synthetic Peptides Inc., Can.
 SOURCE: PCT Int. Appl., 99 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9212169	A1	19920723	WO 1991-CA459	19911224
W: AU, CA, JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE				
US 5494672	A	19960227	US 1991-638492	19910104
AU 9190959	A1	19920817	AU 1991-90959	19911224
AU 661465	B2	19950727		
EP 567470	A1	19931103	EP 1992-901312	19911224
EP 567470	B1	19990915		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, SE				
JP 06504528	T2	19940526	JP 1991-501363	19911224
PRIORITY APPLN. INFO.:			US 1991-638492	19910104
			US 1989-344565	19890428
			WO 1991-CA459	19911224

L11 ANSWER 53 OF 53 USPATFULL
 ACCESSION NUMBER: 89:7656 USPATFULL
 TITLE: Novel lectins derived from bacterial pili
 INVENTOR(S): Brinton, Jr., Charles C., Pittsburgh, PA, United States
 Hanson, Mark, Pittsburgh, PA, United States
 PATENT ASSIGNEE(S): Bactex, Inc., Pittsburgh, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4801690		19890131
APPLICATION INFO.:	US 1986-842946		19860324 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Tarcza, John Edward		
LEGAL REPRESENTATIVE:	Behr, Omri M.		
NUMBER OF CLAIMS:	16		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	42 Drawing Figure(s); 4 Drawing Page(s)		
LINE COUNT:	464		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=>

(FILE 'HOME' ENTERED AT 20:02:20 ON 29 APR 2002)

FILE 'BIOSIS, CABA, CAPLUS, EMBASE, LIFESCI, MEDLINE, SCISEARCH,
USPATFULL, JAPIO' ENTERED AT 20:02:27 ON 29 APR 2002

L1	8058 S MORAXELLA CATARRHALIS
L2	5773 S BRANHAMELLA CATARRHALIS
L3	706 S L1 AND (PROTEINS OR PEPTIDES OR POLYPEPTIDES)
L4	562 S L2 AND (PROTEINS OR PEPTIDES OR POLYPEPTIDES)
L5	141 S L1 AND FRAGMENTS
L6	187 S L2 AND FRAGMENTS
L7	94 DUP REM L5 (47 DUPLICATES REMOVED)
L8	137 DUP REM L6 (50 DUPLICATES REMOVED)
L9	53 S L7 AND VACCIN?
L10	86 S L8 AND VACCIN?
L11	53 DUP REM L9 (0 DUPLICATES REMOVED)
L12	86 DUP REM L10 (0 DUPLICATES REMOVED)

ANSWER 1 OF 22 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2000:666880 CAPLUS
 DOCUMENT NUMBER: 133:247256
 TITLE: Antigens and their genes from Neisseria meningitidis
 and their use as vaccines and diagnostic reagents
 INVENTOR(S): Defrenne, Catherine; Delmelle, Christine; **Ruelle, Jean-Louis**
 PATENT ASSIGNEE(S): SmithKline Beecham Biologicals S.A., Belg.
 SOURCE: PCT Int. Appl., 108 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000055327	A2	20000921	WO 2000-EP1955	20000307
WO 2000055327	A3	20010104		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1163343	A2	20011219	EP 2000-909329	20000307
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRIORITY APPLN. INFO.:			GB 1999-5815	A 19990312
			GB 1999-9094	A 19990421
			GB 1999-9503	A 19990423
			GB 1999-9787	A 19990428
			GB 1999-10710	A 19990507
			WO 2000-EP1955	W 20000307

L2 ANSWER 2 OF 22 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2000:628168 CAPLUS
 DOCUMENT NUMBER: 133:221588
 TITLE: Immunogenic compounds
 INVENTOR(S): **Ruelle, Jean-louis**
 PATENT ASSIGNEE(S): Smithkline Beecham Biologicals S.A., Belg.
 SOURCE: PCT Int. Appl., 97 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000052042	A1	20000908	WO 2000-EP1468	20000223
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1163265	A1	20011219	EP 2000-907603	20000223

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI
PRIORITY APPLN. INFO.: GB 1999-4559 A 19990226
WO 2000-EP1468 W 20000223
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 3 OF 22 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2000:608907 CAPLUS
DOCUMENT NUMBER: 133:188909
TITLE: Protein and DNA sequences of haemophilus influenzae
gene BASB070 and their uses in diagnosis and
vaccination
INVENTOR(S): Ruelle, Jean-Louis; Thonnard, Joelle
PATENT ASSIGNEE(S): Smithkline Beecham Biologicals S.A., Belg.
SOURCE: PCT Int. Appl., 97 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000050599	A1	20000831	WO 2000-EP1423	20000222
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
EP 1157113	A1	20011128	EP 2000-909227	20000222
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			

PRIORITY APPLN. INFO.: GB 1999-4183 A 19990224
WO 2000-EP1423 W 20000222
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 4 OF 22 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2000:573933 CAPLUS
DOCUMENT NUMBER: 133:174551
TITLE: An outer membrane protein of Haemophilus influenzae RD
for use as a protective antigen in vaccines
INVENTOR(S): Ruelle, Jean-louis; Thonnard, Joelle
PATENT ASSIGNEE(S): Smithkline Beecham Biologicals S.A., Belg.
SOURCE: PCT Int. Appl., 88 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000047737	A1	20000817	WO 2000-EP887	20000204
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,			

AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
 DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
 CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 EP 1151097 A1 20011107 EP 2000-906280 20000204
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO

PRIORITY APPLN. INFO.: GB 1999-2880 A 19990209
 WO 2000-EP887 W 20000204
 REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 5 OF 22 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2000:513808 CAPLUS
 DOCUMENT NUMBER: 133:129846
 TITLE: Antigens and their genes from Neisseria meningitidis
 and their use as vaccines and diagnostic reagents
 INVENTOR(S): **Ruelle, Jean-Louis**
 PATENT ASSIGNEE(S): Smithkline Beecham Biologicals S.A., Belg.
 SOURCE: PCT Int. Appl., 103 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000043519	A2	20000727	WO 2000-EP428	20000119
WO 2000043519	A3	20001207		

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
 CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
 IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
 MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
 SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
 DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
 CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

EP 1149164 A2 20011031 EP 2000-901121 20000119
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO

PRIORITY APPLN. INFO.: GB 1999-1368 A 19990122
 GB 1999-1944 A 19990128
 GB 1999-2086 A 19990129
 GB 1999-3417 A 19990215
 GB 1999-3535 A 19990216
 WO 2000-EP428 W 20000119

L2 ANSWER 6 OF 22 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2000:493684 CAPLUS
 DOCUMENT NUMBER: 133:115927
 TITLE: Neisseria meningitidis antigen BASB053 and gene and
 their uses in diagnosis and vaccination
 INVENTOR(S): **Ruelle, Jean-Louis**
 PATENT ASSIGNEE(S): SmithKline Beecham Biologicals S.A., Belg.
 SOURCE: PCT Int. Appl., 92 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000042191	A2	20000720	WO 2000-EP135	20000110
WO 2000042191	A3	20001116		
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
EP 1144644	A2	20011017	EP 2000-901524	20000110
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
PRIORITY APPLN. INFO.:	GB 1999-838 A 19990115 GB 1999-952 A 19990115 GB 1999-1945 A 19990128 GB 1999-1948 A 19990128 GB 1999-2074 A 19990129 GB 1999-2078 A 19990129 GB 1999-2088 A 19990129 GB 1999-2879 A 19990209 GB 1999-2936 A 19990210 GB 1999-3978 A 19990220 GB 1999-4133 A 19990223 GB 1999-4404 A 19990225 WO 2000-EP135 W 20000110			

L2 ANSWER 9 OF 22 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2000:402006 CAPLUS
DOCUMENT NUMBER: 133:38214
TITLE: Antigens and their genes from Neisseria meningitidis and their use as vaccines and diagnostic reagents
INVENTOR(S): **Ruelle, Jean-Louis**; Verlant, Vincent Georges
Christian Louis
PATENT ASSIGNEE(S): SmithKline Beecham Biologicals S.A., Belg.
SOURCE: PCT Int. Appl., 171 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000034482	A2	20000615	WO 1999-IB2014	19991207
WO 2000034482	A3	20001012		
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
EP 1137777	A2	20011004	EP 1999-958434	19991207

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO
PRIORITY APPLN. INFO.:

GB 1998-26979 A 19981208
GB 1998-26980 A 19981208
GB 1998-28015 A 19981217
GB 1999-90 A 19990105
WO 1999-IB2014 W 19991207

L2 ANSWER 10 OF 22 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:402004 CAPLUS

DOCUMENT NUMBER: 133:39137

TITLE: Sequences of Neisseria meningitidis protein BASB040,
and uses thereof in vaccines and in diagnostic
applications

INVENTOR(S): **Ruelle, Jean-Louis**

PATENT ASSIGNEE(S): SmithKline Beecham Biologicals S.A., Belg.

SOURCE: PCT Int. Appl., 98 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000034480	A1	20000615	WO 1999-EP9560	19991202
W:				
AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,				
CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,				
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,				
MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,				
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,				
AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,				
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,				
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1137778	A1	20011004	EP 1999-961063	19991202
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
IE, SI, LT, LV, FI, RO				

PRIORITY APPLN. INFO.: GB 1998-26886 A 19981207
WO 1999-EP9560 W 19991202

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 11 OF 22 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:191223 CAPLUS

DOCUMENT NUMBER: 132:233331

TITLE: Moraxella catarrhalis basb034 polypeptides and utility
in vaccine development and diagnosis

INVENTOR(S): **Ruelle, Jean-louis**

PATENT ASSIGNEE(S): SmithKline Beecham Biologicals S.A., Belg.

SOURCE: PCT Int. Appl., 106 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000015802	A1	20000323	WO 1999-EP6781	19990914
W:				
AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,				
CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,				
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD,				
MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,				

SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
 DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
 CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 AU 9958632 A1 20000403 AU 1999-58632 19990914
 BR 9914492 A 20010626 BR 1999-14492 19990914
 EP 1114160 A1 20010711 EP 1999-946171 19990914
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO
 NO 2001001263 A 20010430 NO 2001-1263 20010313
 PRIORITY APPLN. INFO.: GB 1998-20002 A 19980914
 WO 1999-EP6781 W 19990914
 REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 12 OF 22 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2000:191222 CAPLUS
 DOCUMENT NUMBER: 132:232744
 TITLE: BASB033 genes and proteins from Neisseria meningitidis
 and their use in diagnosis and for vaccination
 INVENTOR(S): **Ruelle, Jean-louis**
 PATENT ASSIGNEE(S): Smithkline Beecham Biologicals S.A., Belg.
 SOURCE: PCT Int. Appl., 93 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000015801	A1	20000323	WO 1999-EP6718	19990909
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG AU 9958622 A1 20000403 AU 1999-58622 19990909 EP 1112366 A1 20010704 EP 1999-946160 19990909 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO PRIORITY APPLN. INFO.: GB 1998-20003 A 19980914 WO 1999-EP6718 W 19990909 REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT				

L2 ANSWER 13 OF 22 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1999:795840 CAPLUS
 DOCUMENT NUMBER: 132:45830
 TITLE: BASB031 polynucleotides and polypeptides from
 Moraxella catarrhalis and their use for diagnosis and
 treatment of infection
 INVENTOR(S): **Ruelle, Jean-louis; Tommassen, Johannes**
 Petrus Maria; Vinals-Bassols, Carlota
 PATENT ASSIGNEE(S): Smithkline Beecham Biologicals S. A., Belg.
 SOURCE: PCT Int. Appl., 113 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9964448	A2	19991216	WO 1999-EP3823	19990531
WO 9964448	A3	20000203		
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
AU 9945049	A1	19991230	AU 1999-45049	19990531
EP 1082436	A2	20010314	EP 1999-927845	19990531
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
PRIORITY APPLN. INFO.:			GB 1998-12163 A 19980605	
			WO 1999-EP3823 W 19990531	

L2 ANSWER 14 OF 22 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1999:764198 CAPLUS
DOCUMENT NUMBER: 132:19650
TITLE: Protein and DNA sequences of Neisseria meningitidis BASB030 gene epitopes, and uses thereof in vaccine compositions and in assays for the diagnosis of bacterial infections
INVENTOR(S): Ruelle, Jean-louis
PATENT ASSIGNEE(S): Smithkline Beecham Biologicals S.A., Belg.
SOURCE: PCT Int. Appl., 96 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9961620	A2	19991202	WO 1999-EP3603	19990526
WO 9961620	A3	20000302		
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
CA 2329269	AA	19991202	CA 1999-2329269	19990526
AU 9945006	A1	19991213	AU 1999-45006	19990526
EP 1080198	A2	20010307	EP 1999-927754	19990526
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI			
BR 9911601	A	20010206	BR 1999-11601	19991202
NO 2000005952	A	20010118	NO 2000-5952	20001124
PRIORITY APPLN. INFO.:			GB 1998-11260 A 19980526	
			WO 1999-EP3603 W 19990526	

L2 ANSWER 15 OF 22 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1999:736940 CAPLUS

DOCUMENT NUMBER: 131:347560
 TITLE: Basb028 polypeptides and polynucleotides from Moraxella catarrhalis with diagnostic and therapeutic applications for vaccination involving lung clearance enhancement
 INVENTOR(S): Ruelle, Jean-Louis
 PATENT ASSIGNEE(S): SmithKline Beecham Biologicals S.A., Belg.
 SOURCE: PCT Int. Appl., 87 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9958685	A2	19991118	WO 1999-EP3263	19990510
WO 9958685	A3	20000224		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2328429	AA	19991118	CA 1999-2328429	19990510
AU 9942602	A1	19991129	AU 1999-42602	19990510
EP 1078066	A2	20010228	EP 1999-950354	19990510
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
PRIORITY APPLN. INFO.:				
			GB 1998-10379	A 19980513
			GB 1999-9175	A 19990421
			WO 1999-EP3263	W 19990510

L2 ANSWER 16 OF 22 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1999:736937 CAPLUS
 DOCUMENT NUMBER: 131:347559
 TITLE: Basb029 polynucleotide(s) and polypeptides from Neisseria meningitidis
 INVENTOR(S): Ruelle, Jean-Louis
 PATENT ASSIGNEE(S): Smithkline Beecham Biologicals S.A., Belg.
 SOURCE: PCT Int. Appl., 74 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9958683	A2	19991118	WO 1999-EP3255	19990507
WO 9958683	A3	20000406		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2328403	AA	19991118	CA 1999-2328403	19990507

AU 9941420 A1 19991129 AU 1999-41420 19990507
 EP 1078063 A2 20010228 EP 1999-924946 19990507
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, FI
 BR 9910396 A 20011030 BR 1999-10396 19990507
 NO 2000005696 A 20010111 NO 2000-5696 20001110
 PRIORITY APPLN. INFO.: GB 1998-10276 A 19980513
 WO 1999-EP3255 W 19990507

L2 ANSWER 17 OF 22 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1999:723176 CAPLUS
 DOCUMENT NUMBER: 131:347525
 TITLE: Moraxella catarrhalis Basb019 proteins and genes from
 Moraxella catarrhalis and antigens and antibodies and
 therapeutic applications
 INVENTOR(S): **Ruelle, Jean-Louis**
 PATENT ASSIGNEE(S): SmithKline Beecham Biologicals S.A., Belg.
 SOURCE: PCT Int. Appl., 101 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9957277	A2	19991111	WO 1999-EP3038	19990503
WO 9957277	A3	20000203		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2327316	AA	19991111	CA 1999-2327316	19990503
AU 9939315	A1	19991123	AU 1999-39315	19990503
EP 1075521	A2	20010214	EP 1999-922171	19990503
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
PRIORITY APPLN. INFO.:		GB 1998-9683	A	19980506
		WO 1999-EP3038	W	19990503

L2 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1999:708914 CAPLUS
 DOCUMENT NUMBER: 131:333043
 TITLE: Protein and DNA sequences of Neisseria meningitidis
 BASB013 gene, and uses thereof in vaccine compositions
 and in assays for the diagnosis of bacterial
 infections
 INVENTOR(S): **Ruelle, Jean-louis**
 PATENT ASSIGNEE(S): Smithkline Beecham Biologicals S.A., Belg.
 SOURCE: PCT Int. Appl., 94 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9955872	A1	19991104	WO 1999-EP2765	19990420

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,
JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,
MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,
TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ,
MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
CA 2326404 AA 19991104 CA 1999-2326404 19990420
AU 9938221 A1 19991116 AU 1999-38221 19990420
EP 1073747 A1 20010207 EP 1999-920767 19990420
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI

PRIORITY APPLN. INFO.:

GB 1998-8734 A 19980423
WO 1999-EP2765 W 19990420

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 19 OF 22 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999:708913 CAPLUS

DOCUMENT NUMBER: 131:333042

TITLE: Protein and DNA sequences of Moraxella catarrhalis
BASB011 gene, and uses thereof in vaccine compositions
and in assays for the diagnosis of bacterial
infections

INVENTOR(S): Ruelle, Jean-louis

PATENT ASSIGNEE(S): Smithkline Beecham Biologicals S.A., Belg.

SOURCE: PCT Int. Appl., 108 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9955871	A1	19991104	WO 1999-EP2764	19990420
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2326820	AA	19991104	CA 1999-2326820	19990420
AU 9940331	A1	19991116	AU 1999-40331	19990420
EP 1071784	A1	20010131	EP 1999-923457	19990420
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				

PRIORITY APPLN. INFO.:

GB 1998-8720 A 19980423
WO 1999-EP2764 W 19990420

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 20 OF 22 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1998:71228 CAPLUS

DOCUMENT NUMBER: 128:164910

TITLE: Genes and gene products specific to pathogenicity of
Neisseria meningitidis, methods for obtaining them and
their biological applications

INVENTOR(S): Nassif, Xavier; Tinsley, Colin; Achtman, Mark;

Ruelle, Jean-Louis; Vinals, Carla; Merker, Petra
PATENT ASSIGNEE(S): Institut National De La Sante Et De La Recherche
Medicale (INSERM), Fr.; Max-Planck-Gesellschaft Zur
Forderung Der Wissenschaften E.V., Berlin; Smithkline
Beecham; Nassif, Xavier; Tinsley, Colin; Achtman,
Mark; **Ruelle, Jean-Louis;** Vinals, Carla; Merker, Petra
SOURCE: PCT Int. Appl., 150 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9802547	A2	19980122	WO 1997-FR1295	19970711
WO 9802547	A3	19980409		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
FR 2751000	A1	19980116	FR 1996-8768	19960712
FR 2751000	B1	19981030		
AU 9736977	A1	19980209	AU 1997-36977	19970711
AU 730423	B2	20010308		
EP 951552	A2	19991027	EP 1997-933727	19970711
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2001504684	T2	20010410	JP 1998-505685	19970711
PRIORITY APPLN. INFO.:				
			FR 1996-8768	A 19960712
			WO 1997-FR1295	W 19970711

L2 ANSWER 21 OF 22 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1990:605670 CAPLUS
DOCUMENT NUMBER: 113:205670
TITLE: Cloning, partial sequence, expression, and antigenic
analysis of the filamentous hemagglutinin gene of
Bordetella pertussis
AUTHOR(S): Delisse-Gathoye, Anne Marie; Lochte, Camille; Jacob,
Francoise; Raaschou-Nielsen, Mette; Heron, Iver;
Ruelle, Jean Louis; De Wilde, Michel; Cabezón,
Teresa
CORPORATE SOURCE: Dep. Mol. Cell. Biol., Smith Kline Biol., Rixensart,
B-1330, Belg.
SOURCE: Infect. Immun. (1990), 58(9), 2895-905
CODEN: INFIBR; ISSN: 0019-9567
DOCUMENT TYPE: Journal
LANGUAGE: English

L2 ANSWER 22 OF 22 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1979:192817 CAPLUS
DOCUMENT NUMBER: 90:192817
TITLE: Modified bielectronic potential method for correlation
energy
AUTHOR(S): **Ruelle, Jean Louis**
CORPORATE SOURCE: Lab. Chim. Quantique, Univ. Catholique Louvain,
Louvain-la-Neuve, Belg.
SOURCE: Int. J. Quantum Chem. (1979), 15(3), 293-309
CODEN: IJQCB2; ISSN: 0020-7608
DOCUMENT TYPE: Journal

LANGUAGE:

English

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